



Recalling the research

Please refer QOL for Short & Neuro Linguistics page 108
about how to use it properly

W. J. Brown

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[illegible]

Table 1. Results of the regression analysis.

1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 26

- 1. Identify the main purpose of the document
- 2. Identify the key points or findings
- 3. Identify the author's or speaker's attitude
- 4. Identify the intended audience
- 5. Identify the main supporting evidence
- 6. Identify the author's or speaker's purpose
- 7. Identify the main conclusion or recommendation
- 8. Identify the main source of information
- 9. Identify the main topic or subject
- 10. Identify the main reason for writing

PAGE 40

What, again, is the point?

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1. ☐ **Correct** You cannot use **Labels** if you are a nonmember of any of the following categories:
 - **Private**
 - **Public**
 - **Protected**
 - **Internal**
 - **Protected Internal**
2. ☐ **Correct** **Labels** can be used in the following situations:
 - **Internal**
 - **Protected Internal**
 - **Protected**
 - **Public**
3. ☐ **Correct** **Labels** can be used in the following situations:
 - **Internal**
 - **Protected Internal**
 - **Protected**
 - **Public**
4. ☐ **Correct** **Labels** can be used in the following situations:
 - **Internal**
 - **Protected Internal**
 - **Protected**
 - **Public**
5. ☐ **Correct** **Labels** can be used in the following situations:
 - **Internal**
 - **Protected Internal**
 - **Protected**
 - **Public**
6. ☐ **Correct** **Labels** can be used in the following situations:
 - **Internal**
 - **Protected Internal**
 - **Protected**
 - **Public**
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 - **Internal**
 - **Protected Internal**
 - **Protected**
 - **Public**
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 - **Internal**
 - **Protected Internal**
 - **Protected**
 - **Public**
9. ☐ **Correct** **Labels** can be used in the following situations:
 - **Internal**
 - **Protected Internal**
 - **Protected**
 - **Public**
10. ☐ **Correct** **Labels** can be used in the following situations:
 - **Internal**
 - **Protected Internal**
 - **Protected**
 - **Public**



Page No. 2/100

FACULTY OF PHARMACY

Pharm 301 Final p 100 published 11 November 2022

Subject: Pharmacology

Time: 2 hours

Reg Number: 11

1000-1

Pharm 301

Question 1 (10 marks)

1. Define the term 'Drug' (2 marks)
2. Define the term 'Pharmacology' (2 marks)
3. Define the term 'Pharmacokinetics' (2 marks)
4. Define the term 'Pharmacodynamics' (2 marks)
5. Define the term 'Pharmacotherapy' (2 marks)
6. Define the term 'Pharmacovigilance' (2 marks)
7. Define the term 'Pharmacoeconomics' (2 marks)
8. Define the term 'Pharmacopoeia' (2 marks)
9. Define the term 'Pharmacopoeial monograph' (2 marks)
10. Define the term 'Pharmacopoeial standard' (2 marks)

1000-2

Pharm 301

Question 2 (10 marks)

1. Define the term 'Drug' (2 marks)
2. Define the term 'Pharmacology' (2 marks)
3. Define the term 'Pharmacokinetics' (2 marks)
4. Define the term 'Pharmacodynamics' (2 marks)
5. Define the term 'Pharmacotherapy' (2 marks)
6. Define the term 'Pharmacovigilance' (2 marks)
7. Define the term 'Pharmacoeconomics' (2 marks)
8. Define the term 'Pharmacopoeia' (2 marks)
9. Define the term 'Pharmacopoeial monograph' (2 marks)
10. Define the term 'Pharmacopoeial standard' (2 marks)

1000-3

Pharm 301

Question 3 (10 marks)

1. Define the term 'Drug' (2 marks)
2. Define the term 'Pharmacology' (2 marks)
3. Define the term 'Pharmacokinetics' (2 marks)
4. Define the term 'Pharmacodynamics' (2 marks)
5. Define the term 'Pharmacotherapy' (2 marks)
6. Define the term 'Pharmacovigilance' (2 marks)
7. Define the term 'Pharmacoeconomics' (2 marks)
8. Define the term 'Pharmacopoeia' (2 marks)
9. Define the term 'Pharmacopoeial monograph' (2 marks)
10. Define the term 'Pharmacopoeial standard' (2 marks)



Page No. 2-100

FACULTY OF PHARMACY

Pharm. D. - The B.Sc. Degree in Pharmaceutical Sciences

Pharm. D. Semester III Question

Time: 1 hour

Max. Marks: 100

Q.1. Answer the following questions

(10 x 1 = 10)

(10 x 1 = 10)

1. List any four properties of water in a liquid state.
2. What is the pH of pure water at 25°C?
3. Define the term "molar concentration".
4. What is a buffer solution?
5. Define the term "pH".
6. What is the pH of a 0.1M solution of HCl?
7. Define the term "molar mass".
8. What is the molar mass of H_2SO_4 ?
9. What is the molar mass of $NaOH$?
10. Define the term "molar mass".

Q.2. Answer the following questions

(10 x 2 = 20)

1. Define the term "molar mass".
2. Define the term "molar mass".
3. Define the term "molar mass".
4. Define the term "molar mass".
5. Define the term "molar mass".
6. Define the term "molar mass".
7. Define the term "molar mass".
8. Define the term "molar mass".
9. Define the term "molar mass".
10. Define the term "molar mass".



FACULTY OF PHARMACY
Pharm. Ex. 2019 - 1st Part (Theory) Exam (Pharm. Ex. 2019 - 1st Part)
Subject: Pharmacokinetics and Pharmacodynamics

Date: 2/4/2019

Ex. 2019 - 1st Part

Write answers to the following questions

100% - 1

Pharm. Ex. 2019 - 1st Part

1. What is the primary mechanism of action of a drug?
2. What is the primary mechanism of action of a drug?
3. What is the primary mechanism of action of a drug?
4. What is the primary mechanism of action of a drug?
5. What is the primary mechanism of action of a drug?
6. What is the primary mechanism of action of a drug?
7. What is the primary mechanism of action of a drug?
8. What is the primary mechanism of action of a drug?
9. What is the primary mechanism of action of a drug?
10. What is the primary mechanism of action of a drug?

Write answers to the following questions

Pharm. Ex. 2019 - 1st Part

1. What is the primary mechanism of action of a drug?
2. What is the primary mechanism of action of a drug?
3. What is the primary mechanism of action of a drug?
4. What is the primary mechanism of action of a drug?
5. What is the primary mechanism of action of a drug?
6. What is the primary mechanism of action of a drug?
7. What is the primary mechanism of action of a drug?
8. What is the primary mechanism of action of a drug?
9. What is the primary mechanism of action of a drug?
10. What is the primary mechanism of action of a drug?



FACULTY OF PHARMACY

Faculty of Pharmacy, University of Jordan
Department of Pharmacology

Date / Page

Page No. / 11

Page No.

Q1. Answer the following questions

(10 x 5 = 50 Marks)

1. What is the definition of a drug?
2. What is the definition of a drug?
3. What is the definition of a drug?
4. What is the definition of a drug?
5. What is the definition of a drug?
6. What is the definition of a drug?
7. What is the definition of a drug?
8. What is the definition of a drug?
9. What is the definition of a drug?
10. What is the definition of a drug?

Q2. Answer the following questions

(10 x 5 = 50 Marks)

1. What is the definition of a drug?
2. What is the definition of a drug?
3. What is the definition of a drug?
4. What is the definition of a drug?
5. What is the definition of a drug?
6. What is the definition of a drug?
7. What is the definition of a drug?
8. What is the definition of a drug?
9. What is the definition of a drug?
10. What is the definition of a drug?



Page No. 2/1988

UNIVERSITY OF WOLLONGONG

Math 3 (Year 2) (Mathematical Analysis) 250002022
(Applied Mathematical Sciences)

Test 3 (Open)

Max Marks: 30

Write answers in the spaces below.

Page 4

(8.1.17 to 8.1.18)

1. Show that $\begin{pmatrix} 1 & 1 & 1 \\ 1 & 1 & 1 \\ 1 & 1 & 1 \end{pmatrix}$ is a singular matrix.

2. If $f(x) = \begin{cases} x^2 & \text{if } x \leq 0 \\ x^3 & \text{if } x > 0 \end{cases}$ find $f'(x)$ for all x .

3. Find $\lim_{x \rightarrow 0} \frac{1}{x} \ln(1+x)$ by the mean value theorem.

4. The function $f(x) = \sin(x)$ is concave up on $(0, \pi)$.

5. Show that $\lim_{x \rightarrow 0} \frac{e^x - 1}{x} = 1$.

6. The function $f(x) = \ln(x)$ is concave down on $(0, \infty)$.

7. Find $\lim_{x \rightarrow 0} \frac{e^x - 1}{x}$ by L'Hôpital's rule.

8. Show that $\lim_{x \rightarrow 0} \frac{1}{x} \ln(1+x) = 1$.

9. Show that $\lim_{x \rightarrow 0} \frac{1}{x} \ln(1+x) = 1$ by using the definition of the limit. $\lim_{x \rightarrow 0} \frac{1}{x} \ln(1+x) = 1$

10. The function $f(x) = \ln(x)$ is concave down on $(0, \infty)$.

Write down the function $f(x)$.

Page 5

(8.1.17 to 8.1.18)

11. Show that $\lim_{x \rightarrow 0} \frac{1}{x} \ln(1+x) = 1$ by using the definition of the limit.

12. Show that $\lim_{x \rightarrow 0} \frac{1}{x} \ln(1+x) = 1$ by using the definition of the limit.

13. Show that $\lim_{x \rightarrow 0} \frac{1}{x} \ln(1+x) = 1$ by using the definition of the limit.

14. Show that $\lim_{x \rightarrow 0} \frac{1}{x} \ln(1+x) = 1$ by using the definition of the limit.

15. Show that $\lim_{x \rightarrow 0} \frac{1}{x} \ln(1+x) = 1$ by using the definition of the limit.

16. Show that $\lim_{x \rightarrow 0} \frac{1}{x} \ln(1+x) = 1$ by using the definition of the limit.

$$11. \text{ Find } \lim_{x \rightarrow 0} \left[\frac{f(x)}{g(x)} \right] \text{ where } f(x) = \frac{1}{x} \text{ and } g(x) = \frac{1}{x^2}.$$

$$12. \text{ Find } \lim_{x \rightarrow 0} \left[\frac{f(x)}{g(x)} \right] \text{ where } f(x) = \frac{1}{x} \text{ and } g(x) = \frac{1}{x^2}.$$

$$13. \text{ Find } \lim_{x \rightarrow 0} \left[\frac{f(x)}{g(x)} \right] \text{ where } f(x) = \frac{1}{x} \text{ and } g(x) = \frac{1}{x^2}.$$

$$14. \text{ Find } \lim_{x \rightarrow 0} \left[\frac{f(x)}{g(x)} \right] \text{ where } f(x) = \frac{1}{x} \text{ and } g(x) = \frac{1}{x^2}.$$

$$15. \lim_{x \rightarrow 0} \left[\frac{f(x)}{g(x)} \right]$$

OU-1704 OU-1704



2020-21

Term 1 (2020-21) **Part A (2020-21)**
Part A (2020-21) **Part A (2020-21)**
Part A (2020-21) **Part A (2020-21)**

Part A (2020-21)

Part A (2020-21)

Part A (2020-21)

Part A (2020-21)

Part A (2020-21)

1. **Part A (2020-21)**
2. **Part A (2020-21)**
3. **Part A (2020-21)**
4. **Part A (2020-21)**
5. **Part A (2020-21)**
6. **Part A (2020-21)**
7. **Part A (2020-21)**
8. **Part A (2020-21)**
9. **Part A (2020-21)**
10. **Part A (2020-21)**

Part A (2020-21)

Part A (2020-21)

1. **Part A (2020-21)**
2. **Part A (2020-21)**
3. **Part A (2020-21)**
4. **Part A (2020-21)**
5. **Part A (2020-21)**
6. **Part A (2020-21)**
7. **Part A (2020-21)**
8. **Part A (2020-21)**
9. **Part A (2020-21)**
10. **Part A (2020-21)**



Form No. 100

MINISTRY OF HEALTH AND FAMILY WELFARE
GOVERNMENT OF INDIA
INVESTIGATION OF DISEASES

Case No. _____ **Sub No.** _____

Name of the patient _____ **Age** _____ **Sex** _____

- Address**
1. Name of the patient
 2. Name of the house
 3. Name of the street
 4. Name of the locality
 5. Name of the village
 6. Name of the taluk
 7. Name of the district
 8. Name of the division
 9. Name of the zone
 10. Name of the country

Date of onset of disease _____ **Duration of disease** _____

1. Name of the disease
2. Name of the agent
3. Name of the vector
4. Name of the reservoir
5. Name of the host
6. Name of the source
7. Name of the contact
8. Name of the animal
9. Name of the plant
10. Name of the insect
11. Name of the micro-organism
12. Name of the chemical
13. Name of the physical agent
14. Name of the radiation
15. Name of the other agent



UNIVERSITY OF BIRMINGHAM
Faculty of Health Sciences
School of Health, Behaviour & Society

Page 1 of 1

Date: 10/10/2023

Page 1 of 1

Question 1 of 10 (10 marks)

10/10/2023

1. Which of the following is a risk factor for Type 2 Diabetes?
2. Which of the following is a risk factor for Type 2 Diabetes?
3. Which of the following is a risk factor for Type 2 Diabetes?
4. Which of the following is a risk factor for Type 2 Diabetes?
5. Which of the following is a risk factor for Type 2 Diabetes?
6. Which of the following is a risk factor for Type 2 Diabetes?
7. Which of the following is a risk factor for Type 2 Diabetes?
8. Which of the following is a risk factor for Type 2 Diabetes?
9. Which of the following is a risk factor for Type 2 Diabetes?
10. Which of the following is a risk factor for Type 2 Diabetes?

Page 1 of 1

Question 2 of 10 (10 marks)

10/10/2023

1. Which of the following is a risk factor for Type 2 Diabetes?
2. Which of the following is a risk factor for Type 2 Diabetes?
3. Which of the following is a risk factor for Type 2 Diabetes?
4. Which of the following is a risk factor for Type 2 Diabetes?
5. Which of the following is a risk factor for Type 2 Diabetes?
6. Which of the following is a risk factor for Type 2 Diabetes?
7. Which of the following is a risk factor for Type 2 Diabetes?
8. Which of the following is a risk factor for Type 2 Diabetes?
9. Which of the following is a risk factor for Type 2 Diabetes?
10. Which of the following is a risk factor for Type 2 Diabetes?



Page No. 7/20

UNIVERSITY OF BIRMINGHAM

School of Mechanical Engineering
Department of Mechanical Engineering

Page 7 of 20

Module: MECH 4000

Page 7 of 20

Question 1 (10 marks)

10 x 1 = 10 marks

1. A car is moving at 100 km/h.
2. The car is moving at 100 km/h.
3. The car is moving at 100 km/h.
4. The car is moving at 100 km/h.
5. The car is moving at 100 km/h.
6. The car is moving at 100 km/h.
7. The car is moving at 100 km/h.
8. The car is moving at 100 km/h.
9. The car is moving at 100 km/h.
10. The car is moving at 100 km/h.

Question 2 (10 marks)

10 x 1 = 10 marks

1. A car is moving at 100 km/h.
2. The car is moving at 100 km/h.
3. The car is moving at 100 km/h.
4. The car is moving at 100 km/h.
5. The car is moving at 100 km/h.
6. The car is moving at 100 km/h.
7. The car is moving at 100 km/h.
8. The car is moving at 100 km/h.
9. The car is moving at 100 km/h.
10. The car is moving at 100 km/h.



Page No. 2120

KARNATAKA
State of the Year 2019-2020 Competition Question Paper
Subject: The Karnataka Legislative Assembly

Time Allowed:

01 Hour 30 Mins

Marking Scheme:

100 Marks

10 x 10 Marks

1. Which of the following is not a member of the Karnataka Legislative Assembly?
2. Which of the following is not a member of the Karnataka Legislative Assembly?
3. Which of the following is not a member of the Karnataka Legislative Assembly?
4. Which of the following is not a member of the Karnataka Legislative Assembly?
5. Which of the following is not a member of the Karnataka Legislative Assembly?
6. Which of the following is not a member of the Karnataka Legislative Assembly?
7. Which of the following is not a member of the Karnataka Legislative Assembly?
8. Which of the following is not a member of the Karnataka Legislative Assembly?
9. Which of the following is not a member of the Karnataka Legislative Assembly?
10. Which of the following is not a member of the Karnataka Legislative Assembly?

Subject: The Karnataka Legislative Assembly



01 Hour 30 Mins

1. Which of the following is not a member of the Karnataka Legislative Assembly?
2. Which of the following is not a member of the Karnataka Legislative Assembly?
3. Which of the following is not a member of the Karnataka Legislative Assembly?
4. Which of the following is not a member of the Karnataka Legislative Assembly?
5. Which of the following is not a member of the Karnataka Legislative Assembly?
6. Which of the following is not a member of the Karnataka Legislative Assembly?
7. Which of the following is not a member of the Karnataka Legislative Assembly?
8. Which of the following is not a member of the Karnataka Legislative Assembly?
9. Which of the following is not a member of the Karnataka Legislative Assembly?
10. Which of the following is not a member of the Karnataka Legislative Assembly?



Page No. 7/20

U.S.P. 1704 (2019/2020)

Faculty of Education, School of Education, Semester I

Subject: Educational Psychology

Page / Total

Page / Total

Section A (10 questions)

10/10

(10 x 1 = 10 Marks)

1. Identify the concept and explain.
2. Identify the concept and explain.
3. Identify the concept and explain.
4. Identify the concept and explain.
5. Identify the concept and explain.
6. Identify the concept and explain.
7. Identify the concept and explain.
8. Identify the concept and explain.
9. Identify the concept and explain.
10. Identify the concept and explain.

Section B (10 questions)

10/10

(10 x 1 = 10 Marks)

1. Identify the concept and explain.
2. Identify the concept and explain.
3. Identify the concept and explain.
4. Identify the concept and explain.
5. Identify the concept and explain.
6. Identify the concept and explain.
7. Identify the concept and explain.
8. Identify the concept and explain.
9. Identify the concept and explain.
10. Identify the concept and explain.



Page No. 1/100

KARNATAKA STATE

Warrant for the purpose of the Government of Karnataka

State of Karnataka, India

State of Karnataka

State of Karnataka

Warrant for the purpose of the Government of Karnataka

Warrant for the purpose of the Government of Karnataka

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Warrant for the purpose of the Government of Karnataka

Warrant for the purpose of the Government of Karnataka

FACULTY PHARMACY
Pharmaceutical Technology Laboratory
Pharmaceutical Technology Laboratory

Time: 1 hour

Salubra 16

PART I

ANS. Answer to the questions.

(14/25 Marks)

1. Define Acute and Chronic.
2. State the physiological role of copper in human body.
3. Give one example of metal and use of it.
4. What is an alloy? Give an example.
5. What are alloys? Give examples.
6. Distinguish between alloys and compounds.
7. Explain the use of food preservatives.
8. What are preservatives? Give two examples.
9. What are preservatives? Give two examples.
10. What are preservatives? Give two examples.

PART II

ANS. Answer to the questions.

(11/15 Marks)

1. Give the general procedure for the test of iron.
2. Give the general procedure for the test of iron.
3. Give the general procedure for the test of iron.
4. Give the general procedure for the test of iron.
5. Give the general procedure for the test of iron.
6. Give the general procedure for the test of iron.
7. Give the general procedure for the test of iron.
8. Give the general procedure for the test of iron.
9. Give the general procedure for the test of iron.
10. Give the general procedure for the test of iron.

**INSTITUTE OF TECHNOLOGY
Pune, COE Unit Test Paper in, August 2014
Subject: Semantics, Mathematics**

Time: 30 min

Max. Marks: 10

QID-4

Write answers in short form

(Short answers)

1. $\frac{1}{2} \log_2 \frac{1}{2} + \frac{1}{4} \log_2 \frac{1}{4} + \frac{1}{8} \log_2 \frac{1}{8} + \frac{1}{16} \log_2 \frac{1}{16} + \frac{1}{32} \log_2 \frac{1}{32} + \frac{1}{64} \log_2 \frac{1}{64}$

2. $\log_2 \frac{1}{2} = -1$ and $\log_2 \frac{1}{4} = -2$

3. $\log_2 \frac{1}{2} = -1$ and $\log_2 \frac{1}{4} = -2$

4. The value of $\log_2 \frac{1}{2}$ is -1 and the value of $\log_2 \frac{1}{4}$ is -2

5. $\log_2 \frac{1}{2} = -1$

6. $\log_2 \frac{1}{2} = -1$

7. The value of $\log_2 \frac{1}{2}$ is -1

8. $\log_2 \frac{1}{2} = -1$ and $\log_2 \frac{1}{4} = -2$

9. $\log_2 \frac{1}{2} = -1$

10. The value of $\log_2 \frac{1}{2}$ is -1 and the value of $\log_2 \frac{1}{4}$ is -2

$\log_2 \frac{1}{2} = -1$

11. The value of $\log_2 \frac{1}{2}$ is -1 and the value of $\log_2 \frac{1}{4}$ is -2

QID-5

Write answers in short form

(Short answers)

1. The value of $\log_2 \frac{1}{2}$ is -1 and the value of $\log_2 \frac{1}{4}$ is -2

2. $\log_2 \frac{1}{2} = -1$ and $\log_2 \frac{1}{4} = -2$

3. The value of $\log_2 \frac{1}{2}$ is -1 and the value of $\log_2 \frac{1}{4}$ is -2

4. $\log_2 \frac{1}{2} = -1$ and $\log_2 \frac{1}{4} = -2$

5. The value of $\log_2 \frac{1}{2}$ is -1 and the value of $\log_2 \frac{1}{4}$ is -2

6. The value of $\log_2 \frac{1}{2}$ is -1 and the value of $\log_2 \frac{1}{4}$ is -2

7. $\log_2 \frac{1}{2} = -1$ and $\log_2 \frac{1}{4} = -2$

8. The value of $\log_2 \frac{1}{2}$ is -1 and the value of $\log_2 \frac{1}{4}$ is -2

9. $\log_2 \frac{1}{2} = -1$ and $\log_2 \frac{1}{4} = -2$

10. The value of $\log_2 \frac{1}{2}$ is -1 and the value of $\log_2 \frac{1}{4}$ is -2

11. $\log_2 \frac{1}{2} = -1$ and $\log_2 \frac{1}{4} = -2$

12. $\log_2 \frac{1}{2} = -1$ and $\log_2 \frac{1}{4} = -2$

13. $\log_2 \frac{1}{2} = -1$ and $\log_2 \frac{1}{4} = -2$

14. $\log_2 \frac{1}{2} = -1$ and $\log_2 \frac{1}{4} = -2$

15. The value of $\log_2 \frac{1}{2}$ is -1 and the value of $\log_2 \frac{1}{4}$ is -2

16. The value of $\log_2 \frac{1}{2}$ is -1 and the value of $\log_2 \frac{1}{4}$ is -2

$\log_2 \frac{1}{2} = -1$ and $\log_2 \frac{1}{4} = -2$

PHYSIOLOGY AND ANATOMY
Physiology of the General Circulation (page 0034)
Subject: Anatomy/Physiology

Time: 3 hours

Max Marks: 75

Roll No.

Write answer of the questions

(12×2=24 Marks)

1. Write a note on thromboses
2. Define Thrombosis
3. Discuss post mortem changes in coronary blood
4. What are the secondary causes of myocardial infarction
5. Write a note on post mortem changes in heart
6. Discuss the changes in blood pressure and its symptoms
7. What are the causes of
8. Discuss the changes in body
9. Write a note on the changes in body
10. Write a note on thromboses

Roll No.

Write answer of the questions

(12×2=24 Marks)

11. Discuss the changes in body
12. Discuss the changes in body
13. Discuss the changes in body
14. Discuss the changes in body
15. Discuss the changes in body
16. Discuss the changes in body
17. Discuss the changes in body
18. Discuss the changes in body
19. Discuss the changes in body
20. Discuss the changes in body

FACULTY OFFICE/BRANCH
 MEMBERSHIP: 2-4 MEMBERS/BRANCH/MEET/MEETING
Subject: Botany & Zoology

LAWRENCE & CO

1943-44

BIO. BRANCH

Part 1

1943-44

1943-44

1. What is the effect of the following on the rate of photosynthesis?
2. What is the effect of the following on the rate of photosynthesis?
3. What is the effect of the following on the rate of photosynthesis?
4. What is the effect of the following on the rate of photosynthesis?
5. What is the effect of the following on the rate of photosynthesis?
6. What is the effect of the following on the rate of photosynthesis?
7. What is the effect of the following on the rate of photosynthesis?
8. What is the effect of the following on the rate of photosynthesis?
9. What is the effect of the following on the rate of photosynthesis?
10. What is the effect of the following on the rate of photosynthesis?

Part 2

1943-44

1943-44

1. What is the effect of the following on the rate of photosynthesis?
2. What is the effect of the following on the rate of photosynthesis?
3. What is the effect of the following on the rate of photosynthesis?
4. What is the effect of the following on the rate of photosynthesis?
5. What is the effect of the following on the rate of photosynthesis?
6. What is the effect of the following on the rate of photosynthesis?
7. What is the effect of the following on the rate of photosynthesis?
8. What is the effect of the following on the rate of photosynthesis?
9. What is the effect of the following on the rate of photosynthesis?
10. What is the effect of the following on the rate of photosynthesis?

EXERCISES **Part 1 of 100 Questions**

100 Questions

100 Questions

100 Questions

Part 1

100 Questions

- Define Design for Manufacture (DFM) and its importance.
- What are the key factors for a good DFM design?
- What are the key factors for a good DFM design?
- What are the key factors for a good DFM design?
- What are the key factors for a good DFM design?
- What are the key factors for a good DFM design?
- What are the key factors for a good DFM design?
- What are the key factors for a good DFM design?
- What are the key factors for a good DFM design?
- What are the key factors for a good DFM design?

Part 2

100 Questions

100 Questions

- Define Design for Assembly (DFA) and its importance.
- What are the key factors for a good DFA design?
- What are the key factors for a good DFA design?
- What are the key factors for a good DFA design?
- What are the key factors for a good DFA design?
- What are the key factors for a good DFA design?
- What are the key factors for a good DFA design?
- What are the key factors for a good DFA design?
- What are the key factors for a good DFA design?
- What are the key factors for a good DFA design?

PROBATIONARY EXAMINATIONS

Monday 16th Feb 11am-12pm / Tuesday 16th Feb 12pm-1pm
Subject: **English Language and Literature**

Section One

Duration: 1h

PART 1

How Answer the questions

(10 x 10 Marks = 100)

1. Explain the structure of Shakespeare's *Titus Andronicus* and explain how it functions.
2. Discuss the themes of *Julius Caesar* and *Antony and Cleopatra*.
3. Write a short note on *Hamlet* and *Macbeth*.
4. Explain *Anna Karenina*. Discuss its plot and its social significance.
5. Write a short note on *Anna Karenina*.
6. Write a short note on *Anna Karenina*.
7. Explain the following: *Anna Karenina* and *Anna Karenina*.
8. Write a short note on *Anna Karenina*.
9. Explain *Anna Karenina*. Discuss the characters of *Anna Karenina*.
10. Write a short note on *Anna Karenina*.

PART 2

How Answer any five questions

(5 x 20 Marks = 100)

1. Explain the structure of *Anna Karenina*.
2. Explain the structure of *Anna Karenina*. Discuss its plot and its social significance.
3. Explain the structure of *Anna Karenina*. Discuss its plot and its social significance.
4. Explain the structure of *Anna Karenina*. Discuss its plot and its social significance.
5. Explain the structure of *Anna Karenina*. Discuss its plot and its social significance.
6. Explain the structure of *Anna Karenina*. Discuss its plot and its social significance.
7. Explain the structure of *Anna Karenina*. Discuss its plot and its social significance.
8. Explain the structure of *Anna Karenina*. Discuss its plot and its social significance.
9. Explain the structure of *Anna Karenina*. Discuss its plot and its social significance.
10. Explain the structure of *Anna Karenina*. Discuss its plot and its social significance.

PAUL YOUNG M.B.N.T.
Pharm.D./D.O./M.D./D.V.M./D.A.M.D./D.N.B./D.N.M.D./D.V.M.D.
Human Anatomy for Physiology

2007-2008

2007-2008

UNIT-4

write answers to questions

(for 100 marks)

1. Explain about the following: (each component of sensory system and function) (any 4)
2. Define: (any 4) (each is short answer type question of 100 marks)
3. Give the definition of: (any 4) (each is short answer type question)
4. Explain the difference between: (any 4) (each is short answer type question)
5. Give the definition of: (any 4) (each is short answer type question)
6. Explain the difference between: (any 4) (each is short answer type question)
7. Give the definition of: (any 4) (each is short answer type question)
8. Give the definition of: (any 4) (each is short answer type question)
9. Give the definition of: (any 4) (each is short answer type question)
10. Give the definition of: (any 4) (each is short answer type question)

UNIT-5

write answers to questions

(for 100 marks)

1. Explain the following: (any 4) (each is short answer type question)
2. Define: (any 4) (each is short answer type question)
3. Give the definition of: (any 4) (each is short answer type question)
4. Explain the difference between: (any 4) (each is short answer type question)
5. Give the definition of: (any 4) (each is short answer type question)
6. Explain the difference between: (any 4) (each is short answer type question)
7. Give the definition of: (any 4) (each is short answer type question)
8. Explain the difference between: (any 4) (each is short answer type question)
9. Give the definition of: (any 4) (each is short answer type question)
10. Explain the difference between: (any 4) (each is short answer type question)



C.S.E. 2019-2020

FACULTY OF SCIENCE

Part (A) and (B) will be held separately (computer, mathematics)

subject: mathematical background activity

Page 1 of 10

Page 1 of 10

Page 1 of 10

Page 1 of 10

Page 1 of 10

1. Which of the following is not a function?
2. Which of the following is not a function?
3. Which of the following is not a function?
4. Which of the following is not a function?
5. Which of the following is not a function?
6. Which of the following is not a function?
7. Which of the following is not a function?
8. Which of the following is not a function?
9. Which of the following is not a function?
10. Which of the following is not a function?

Page 1 of 10

Page 1 of 10

Page 1 of 10

11. Which of the following is not a function?
12. Which of the following is not a function?
13. Which of the following is not a function?
14. Which of the following is not a function?
15. Which of the following is not a function?
16. Which of the following is not a function?
17. Which of the following is not a function?
18. Which of the following is not a function?
19. Which of the following is not a function?
20. Which of the following is not a function?

Page 1 of 10



Page No. _____

SCHOOL OF PHARMACY
Haryana University of Health Sciences, Sector-22, Gurgaon, Haryana-122002
Subject: Human Anatomy and Physiology

Theo: 3 hours

Max. Marks: 70

PART - A

Total marks of this section:

10 x 3 = 30 Marks

1. Explain about blood circulation in general and in the digestive system.
2. Write about: Pathology of the digestive system and its clinical features.
3. Draw the structure of the digestive system.
4. Explain the digestive system of the digestive system.
5. Describe the structure of the digestive system.
6. Explain the structure of the digestive system.
7. Explain the structure of the digestive system.
8. Explain the structure of the digestive system.
9. Explain the structure of the digestive system.
10. Explain the structure of the digestive system.

PART - B

Total marks of this section:

5 x 10 = 50 Marks

11. a. Write a short note on the following:
 - (i) The structure of the digestive system.
 - (ii) The structure of the digestive system.
12. Describe the structure of the digestive system and its clinical features.
13. a. Write a short note on the following:
 - (i) The structure of the digestive system.
 - (ii) The structure of the digestive system.
14. a. Describe the structure of the digestive system and its clinical features.
15. Describe the structure of the digestive system and its clinical features.
16. Describe the structure of the digestive system and its clinical features.
17. Describe the structure of the digestive system and its clinical features.
18. Describe the structure of the digestive system and its clinical features.
19. Describe the structure of the digestive system and its clinical features.
20. Describe the structure of the digestive system and its clinical features.



2024-25-2025

UNIVERSITY OF CALICUT
Scheme III / B.Com. / Semester II / Accounting / Intermediate / B.Com.
Subject: Financial Accounting

Time: 3 hours

Max. Marks: 75

PART - A

Note: answer all the questions

(10 x 10 = 100 marks)

1. Write the significance of G.P. & M.P.
2. Define the following: (a) Debit (b) Credit
3. Explain the following: (a) Debit (b) Credit
4. Write the following: (a) Debit (b) Credit
5. Write the following: (a) Debit (b) Credit
6. Write the following: (a) Debit (b) Credit
7. Write the following: (a) Debit (b) Credit
8. Write the following: (a) Debit (b) Credit
9. Write the following: (a) Debit (b) Credit
10. Write the following: (a) Debit (b) Credit

PART - B

Note: answer any five questions

(5 x 10 = 50 marks)

1. Write the following: (a) Debit (b) Credit
2. Write the following: (a) Debit (b) Credit
3. Write the following: (a) Debit (b) Credit
4. Write the following: (a) Debit (b) Credit
5. Write the following: (a) Debit (b) Credit
6. Write the following: (a) Debit (b) Credit
7. Write the following: (a) Debit (b) Credit
8. Write the following: (a) Debit (b) Credit
9. Write the following: (a) Debit (b) Credit
10. Write the following: (a) Debit (b) Credit



000000-01000

FACULTY OF PHARMACY

First Year H.TCC (BSc & BSc) Examination, September 2001

Subject: Pharmacology - Organ Chemistry

Time: 2 hours

Roll No. _____

DATE _____

Q1. Answer all the questions.

(10 x 2 = 20 marks)

1. List the classification of drugs.
2. What is the meaning of pharmacokinetics and pharmacodynamics?
3. Name the two types of drugs that are used in the treatment of hypertension.
4. What is the mechanism of action of the following drugs?
(a) Propranolol (b) Digoxin
5. What is the mechanism of action of the following drugs?
(a) Aspirin (b) Paracetamol
6. What is the mechanism of action of the following drugs?
(a) Morphine (b) Cocaine
7. What is the mechanism of action of the following drugs?
(a) Insulin (b) Glucagon
8. What is the mechanism of action of the following drugs?
(a) Penicillin (b) Tetracycline
9. What is the mechanism of action of the following drugs?
(a) Chloramphenicol (b) Erythromycin
10. What is the mechanism of action of the following drugs?
(a) Gentamicin (b) Neomycin

Q2. Answer any two questions.

(2 x 10 = 20 marks)

1. (a) Explain the mechanism of action of the following drugs:
(i) Digoxin (ii) Furosemide (iii) Aspirin (iv) Paracetamol
2. (a) Explain the mechanism of action of the following drugs:
(i) Insulin (ii) Glucagon (iii) Penicillin (iv) Tetracycline
3. (a) Explain the mechanism of action of the following drugs:
(i) Morphine (ii) Cocaine (iii) Insulin (iv) Glucagon
4. (a) Explain the mechanism of action of the following drugs:
(i) Digoxin (ii) Furosemide (iii) Aspirin (iv) Paracetamol
5. (a) Explain the mechanism of action of the following drugs:
(i) Insulin (ii) Glucagon (iii) Penicillin (iv) Tetracycline
6. (a) Explain the mechanism of action of the following drugs:
(i) Morphine (ii) Cocaine (iii) Insulin (iv) Glucagon
7. (a) Explain the mechanism of action of the following drugs:
(i) Digoxin (ii) Furosemide (iii) Aspirin (iv) Paracetamol
8. (a) Explain the mechanism of action of the following drugs:
(i) Insulin (ii) Glucagon (iii) Penicillin (iv) Tetracycline
9. (a) Explain the mechanism of action of the following drugs:
(i) Morphine (ii) Cocaine (iii) Insulin (iv) Glucagon
10. (a) Explain the mechanism of action of the following drugs:
(i) Digoxin (ii) Furosemide (iii) Aspirin (iv) Paracetamol



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FACULTY OF PHARMACY
Pharm. Care YOC (1st Year) Role & Delivery Distribution (semester: 202)
Subject: Pharm. Education

Time: 2 hours

Max. Marks: 50

Part - A

Short answer to the questions

10 x 2 = 20 Marks

1. Define the following terms: Learning objectives
2. Write short notes on: Drug Communication
3. Present in the lecture a list of 5 points to be discussed in the topic: EDC and
4. Present role of Teacher: provide with examples
5. Presentation of different types of Education
6. Find the strengths of the following studies in terms of presentation
7. Write short notes: Assessment and performance evaluation
8. Why the assessment is important and why not?
9. Differentiate between: Assessment and Evaluation
10. Write short notes: Assessment and Evaluation

Part - B

Long Answer to the questions

30 x 2 = 60 Marks

1. Write the concept of Teacher and his role in the field of Pharm. Education
2. Write a short note on the importance of Pharm. Education
3. Write short notes on: EDC and
4. Write short notes on: Assessment and Evaluation of Education
5. Write a short note on the role of Teacher in Pharm. Education
6. Write a short note on the role of Teacher in Pharm. Education
7. Write a short note on the role of Teacher in Pharm. Education
8. Write a short note on the role of Teacher in Pharm. Education
9. Write a short note on the role of Teacher in Pharm. Education
10. Write a short note on the role of Teacher in Pharm. Education



FACULTY OF ENGINEERING

SCIENCE, E-12204

Exam 2 of Year 2 for Faculty of Engineering, Alexandria University, October 2020

APPLIED MATHEMATICS I

Total 2 hours

Max. Score 70

Part - 4

Write answers to the questions.

15-17 * 10 MARKS

$$1. \text{ Find } \int \frac{x^2 + 1}{x^2 + 1} dx$$

$$2. \text{ Find } \int \frac{x^2 + 1}{x^2 + 1} dx$$

$$3. \text{ Find } \int \frac{x^2 + 1}{x^2 + 1} dx$$

$$4. \text{ Find } \int \frac{x^2 + 1}{x^2 + 1} dx$$

$$5. \text{ Find } \int \frac{x^2 + 1}{x^2 + 1} dx$$

$$6. \text{ Find } \int \frac{x^2 + 1}{x^2 + 1} dx$$

$$7. \text{ Find } \int \frac{x^2 + 1}{x^2 + 1} dx$$

$$8. \text{ Find } \int \frac{x^2 + 1}{x^2 + 1} dx$$

$$9. \text{ Find } \int \frac{x^2 + 1}{x^2 + 1} dx$$

$$10. \text{ Find } \int \frac{x^2 + 1}{x^2 + 1} dx$$

Part - 5

Write answers and key quantities

18-20 * 10 MARKS

$$11. \text{ Find } \int \frac{x^2 + 1}{x^2 + 1} dx$$

$$12. \text{ Find } \int \frac{x^2 + 1}{x^2 + 1} dx$$

$$13. \text{ Find } \int \frac{x^2 + 1}{x^2 + 1} dx$$

$$14. \text{ Find } \int \frac{x^2 + 1}{x^2 + 1} dx$$

$$15. \text{ Find } \int \frac{x^2 + 1}{x^2 + 1} dx$$

$$16. \text{ Find } \int \frac{x^2 + 1}{x^2 + 1} dx$$

$$17. \text{ Find } \int \frac{x^2 + 1}{x^2 + 1} dx$$

$$18. \text{ Find } \int \frac{x^2 + 1}{x^2 + 1} dx$$

$$19. \text{ Find } \int \frac{x^2 + 1}{x^2 + 1} dx$$

$$20. \text{ Find } \int \frac{x^2 + 1}{x^2 + 1} dx$$

$$21. \text{ Find } \int \frac{x^2 + 1}{x^2 + 1} dx$$

$$22. \text{ Find } \int \frac{x^2 + 1}{x^2 + 1} dx$$



It is also known that $\sum_{n=1}^{\infty} \frac{1}{n^2} = \frac{\pi^2}{6}$.

$$\text{Hence, } \sum_{n=1}^{\infty} \frac{1}{n^2} = \frac{\pi^2}{6}$$

It is also known that $\sum_{n=1}^{\infty} \frac{1}{n^3} = \frac{\pi^3}{32}$. Hence, we find $\sum_{n=1}^{\infty} \frac{1}{n^3} = \frac{\pi^3}{32}$.

$$\text{Hence, } \sum_{n=1}^{\infty} \frac{1}{n^3} = \frac{\pi^3}{32}$$

It is also known that $\sum_{n=1}^{\infty} \frac{1}{n^4} = \frac{\pi^4}{96}$.

$$\text{Hence, } \sum_{n=1}^{\infty} \frac{1}{n^4} = \frac{\pi^4}{96}$$

OU-1704 OU-1704



Grade 12 History

DEPARTMENT OF EDUCATION

Matthew Goniwe School of Leadership & Governance
 2023 MATRIC HISTORY EXAMINATION

Time: 2 hours

Max. Marks: 100

PART A

Write answers to the questions

10 x 1 = 10 Marks

1. What was the main aim of the 1996 Education White Paper?
2. Give two examples of the impact of the 1996 Education White Paper.
3. What was the main aim of the 1996 Education White Paper?
4. What was the main aim of the 1996 Education White Paper?
5. What was the main aim of the 1996 Education White Paper?
6. What was the main aim of the 1996 Education White Paper?
7. What was the main aim of the 1996 Education White Paper?
8. What was the main aim of the 1996 Education White Paper?
9. What was the main aim of the 1996 Education White Paper?
10. What was the main aim of the 1996 Education White Paper?

PART B

Write answers to the questions

10 x 11 = 110 Marks

11. Explain the role of the 1996 Education White Paper in the development of the South African education system.
12. Discuss the impact of the 1996 Education White Paper on the development of the South African education system.
13. Explain the role of the 1996 Education White Paper in the development of the South African education system.
14. Discuss the impact of the 1996 Education White Paper on the development of the South African education system.
15. Explain the role of the 1996 Education White Paper in the development of the South African education system.
16. Discuss the impact of the 1996 Education White Paper on the development of the South African education system.
17. Explain the role of the 1996 Education White Paper in the development of the South African education system.
18. Discuss the impact of the 1996 Education White Paper on the development of the South African education system.
19. Explain the role of the 1996 Education White Paper in the development of the South African education system.
20. Discuss the impact of the 1996 Education White Paper on the development of the South African education system.



INSTITUTE OF MANAGEMENT
Flourish, 2 & 3 YDC / New May 3, 2022 Examination
QUESTION SET
English, Institute Department

Course: D-100

Year: 1st year

Roll No: 18

Part I - 1

Only, Answer any five questions

(10 x 17 = 170 Marks)

1. Name three poets who have written poems on love.
2. Define what is meant by a metaphor.
3. Define what is meant by a simile and give an example.
4. Define what is meant by a personification.
5. Name a famous English poet who has written a poem on love.
6. Name a famous English poet who has written a poem on love.
7. Give an example of a simile from a poem.
8. Give an example of a metaphor from a poem.
9. Give an example of a personification from a poem.
10. Name three poets who have written poems on love.

Part I - 2

Only, Answer any five questions

(10 x 17 = 170 Marks)

11. Give an example of a simile from a poem.
12. Give an example of a metaphor from a poem.
13. Give an example of a personification from a poem.
14. Give an example of a simile from a poem.
15. Give an example of a metaphor from a poem.
16. Give an example of a personification from a poem.
17. Give an example of a simile from a poem.
18. Give an example of a metaphor from a poem.
19. Give an example of a personification from a poem.
20. Give an example of a simile from a poem.



Abstract

FACTS OF HISTORY

Wu et al. • H₂O₂ / NADPH Oxidase-1 Signaling in Sickle Cell Erythrocytes
J. Neurosci., September 24, 2008 • 28(39):9811–9821 • 9821

Subject: Human Learning and Memory

2000

doi:10.1017/S0022292X10000590

附錄二

DOI: 10.1002/for

【附注】① 本表根据《中国统计年鉴》(1995)有关数据整理。

1. Analyze the local characteristics of the host's policy.
2. Analyze the local characteristics.
3. Analyze the local characteristics and long capacity.
4. Analyze the local characteristics.
5. Evaluate the structure of local functions.
6. Determine the local characteristics and long capacity.
7. Analyze the local characteristics and long capacity.
8. Analyze the local characteristics and long capacity.
9. Analyze the local characteristics and long capacity.

MLJ 09/06/06 of amounts and a 10% note on 10/1/06.

TABLE 2

THE LITERARY CLASSICAL

11-20-2010

- I. Describe the two types of heat sink of an air-cooled refrigerator and bearing with a neat labeled diagram.
- II. Explain the advantages and limitations of a self-heating electric heat storage system.
- III. Discuss the operation of the evaporator, condenser, expansion valve and filter of a domestic refrigerator.
- IV. Explain the operational features of a dry ice and a heat storage system with the functions of a dry ice system.
- V. Draw a neat labeled diagram of heat sink module in coal circulation cycle.
- VI. Define Joule, Btu, a ton of refrigeration and indicate values.
- VII. Explain about heat transfer by conduction. Take glass pane as an example.
- VIII. Write about properties of heat sink in detail.



Code No. D-184

FACULTY OF PHARMACY

Exam. III- year IV/CO-2 part II (Practical Examination) September 2000

Subject: Pharmaceutical Organic Chemistry

Time: 2 hours

Total Marks: 40

PART - A

Write Answer of the questions

(10 x 2 = 20 Marks)

1. Write the general procedure for the synthesis of Aspirin.
2. Write a note on Effluent and Secondary wastewater treatment.
3. Write the method of preparation, assay and use of Aspirin/Chitosan.
4. Aspirin being acid - Phenyl ester, calculate its pKa.
5. Write a note on Secondary Effluent.
6. Write the method of a liquid chromatography in a series of 3 stages/ 3 columns/ 3 tubes.
7. What are the advantages of the chromatography of various compounds?
8. Draw the structure of Aspirin and its degradation product.
9. What are the uses of Aspirin in the treatment of various compounds?
10. Draw the structure of Aspirin, showing the ester group of the

PART - B

Write Answer of the questions

(2 x 10 = 20 Marks)

1. Write a note on Antibiotic treatment of eye.
2. Aspirin is a hydrolyzable ester and is a
3. Write a note on Aspirin synthesis and Purification.
4. Write a note on Aspirin synthesis.
5. Write the preparation, assay and use of Aspirin and Chitosan.
6. Aspirin is a hydrolyzable ester and is a
7. Write the method of preparation, assay and use of Aspirin and Chitosan.
8. Write the method of preparation, assay and use of Aspirin and Chitosan.



Code No. D-100

FACULTY OF PHARMACY

Pharm. D & YDC / Year III & Final Examination,

September 2021

Basic Pharmacology (part - one) (100 Marks)

Time (1 hour)

Date (signature)

Part I - 4

Write short answer to the questions

(10 x 1 = 10 Marks)

1. Define isotonicity and give one example.
2. Define osmolarity (Osmol/L).
3. Name the two chemical uses of the following:
(a) Salicylic acid (b) Chloroform.
4. Mention the difference between (a) acid and (b) alkali.
(i) pH (ii) effect on water (iii) effect on metal.
5. Name a weak and a strong electrolyte and give an example.
6. Name two uses of potassium of any potassium salt.
7. Define the term: (a) Electrolyte (b) Nonelectrolyte (c) Nonelectrolyte.
8. Name the structure of the following:
(a) Sodium chloride (b) Calcium hydroxide (c) Calcium carbonate.
9. Compare the toxicity of sodium with sodium chloride.

Part II - 2

Write answer any two questions

(2 x 10 = 20 Marks)

1. (a) Define osmolarity and give one example of electrolyte.
(b) Define the difference and similarity of (i) water and (ii) alcohol.
2. Name a weak and a strong electrolyte and give an example of each.
3. Name a weak and a strong electrolyte and give an example of each.
4. Name a weak and a strong electrolyte and give an example of each.
5. Name a weak and a strong electrolyte and give an example of each.
6. Name a weak and a strong electrolyte and give an example of each.
7. Name a weak and a strong electrolyte and give an example of each.
8. Name a weak and a strong electrolyte and give an example of each.
9. Name a weak and a strong electrolyte and give an example of each.
10. Name a weak and a strong electrolyte and give an example of each.
11. Name a weak and a strong electrolyte and give an example of each.
12. Name a weak and a strong electrolyte and give an example of each.
13. Name a weak and a strong electrolyte and give an example of each.
14. Name a weak and a strong electrolyte and give an example of each.
15. Name a weak and a strong electrolyte and give an example of each.
16. Name a weak and a strong electrolyte and give an example of each.
17. Name a weak and a strong electrolyte and give an example of each.
18. Name a weak and a strong electrolyte and give an example of each.
19. Name a weak and a strong electrolyte and give an example of each.
20. Name a weak and a strong electrolyte and give an example of each.



Code No. D-181

FACULTY OF PHARMACY

Module D & T11: New Drug A, Marketing Pharmaceutical, September 2022

Subject: Pharmaceutical

Time: 1 hour

Max Marks: 70

PART - A

Only Answer all the questions

(10 x 2 = 20 Marks)

1. Define Osmoprotection and classify the Osmoprotectant
2. Name and explain the five factors that influence the Q₁₀
3. Nitric acid is being stored for a cycle of 5 years if the initial storage temp is +21 deg
4. Calculate the amount of 10% alcohol required in a capsule (30 mg of 10% alcohol)
5. Name 4 other sources of Sodium peroxide
6. Name 4 the difference between Lactone and Lactam
7. Differentiate Fusidic acid and Erythromycin Sulphonate
8. Name 4 active or Inactive ingredients in pills
9. Name the mechanism of action in Chemotherapy against cancer
10. Name 4 active or Inactive ingredients in pills

PART - B

Only Answer any five questions

(5 x 12 = 60 Marks)

1. Define Pharmacopoeia and give its uses of Pharmacopoeia
2. Explain Kinetics of drug / Pharmacokinetics and its importance
3. Explain the effect of pH on drug solubility and its importance in drug
4. Explain the effect of temperature on drug solubility
5. Explain the effect of pH on drug solubility and its importance in drug
6. Explain the effect of pH on drug solubility and its importance in drug
7. Explain the effect of pH on drug solubility and its importance in drug
8. Explain the effect of pH on drug solubility and its importance in drug
9. Explain the effect of pH on drug solubility and its importance in drug
10. Explain the effect of pH on drug solubility and its importance in drug



Code No. 0418

FACULTY OF PHARMACY

Pharm. I (GTTC) Final Exam I. Basic Pharmacology: October 2022.
Lupat Bldg

Time: 1 hour

Max. Marks: 30

PART - I

Q1. Answer any five questions

(10 x 2 = 20 Marks)

1. Definition of pharmacy
2. Secondary standard deviation of drug
3. Classification
4. First step in drug
5. Telephone
6. Advertising to a user
7. Unethical marketing
8. Factors affecting drug
9. Classification of drugs
10. Red / Blue

PART - II

Q2. Answer any three questions

(3 x 10 = 30 Marks)

1. (a) What are the parts of the drug?
- (b) What are the components of a drug?
2. Describe the structure of drug molecules and the factors affecting the drug.
3. Explain the structure of water and its role in the drug.
4. Explain the structure of the drug and its role in the drug.
5. Explain the structure of the drug and its role in the drug.
6. Explain the structure of the drug and its role in the drug.
7. Explain the structure of the drug and its role in the drug.
8. Explain the structure of the drug and its role in the drug.
9. Explain the structure of the drug and its role in the drug.
10. Explain the structure of the drug and its role in the drug.



Course Code

TWILTYTH CENTURY

Mathematical Analysis & Computing Examination (October 2022)

Subject: General Mathematics

Paper: 1 (Math)

Mathematical Analysis

Page 1 of 2

Note: Answer all the questions.

Time: 1 hour 15 minutes

1. Show that $\int_0^1 \frac{1}{x^2} dx = 2 - \ln 2$ and $\int_0^1 \frac{1}{x^2} dx = 2 - \ln 2$.

2. If $f(x) = \frac{1}{x^2}$, show that $f'(x) = -\frac{2}{x^3}$ and $f''(x) = \frac{6}{x^4}$.

3. Show that $\int_0^1 \frac{1}{x^2} dx = 2 - \ln 2$.

4. Show that $\int_0^1 \frac{1}{x^2} dx = 2 - \ln 2$.

5. Show that $\int_0^1 \frac{1}{x^2} dx = 2 - \ln 2$.

6. Show that $\int_0^1 \frac{1}{x^2} dx = 2 - \ln 2$.

7. Show that $\int_0^1 \frac{1}{x^2} dx = 2 - \ln 2$.

8. Show that $\int_0^1 \frac{1}{x^2} dx = 2 - \ln 2$.

9. Show that $\int_0^1 \frac{1}{x^2} dx = 2 - \ln 2$.

10. Show that $\int_0^1 \frac{1}{x^2} dx = 2 - \ln 2$.

Page 2 of 2

Note: Answer any five questions.

Time: 1 hour 15 minutes

1. Using the method of residues, find the value of

$$\int_0^\infty \frac{1}{x^2 + 1} dx = \frac{\pi}{2}$$

2. Use the method of residues to find the value of the integral

$$\int_0^\infty \frac{1}{x^2 + 1} dx$$

$$\int_0^\infty \frac{1}{x^2 + 1} dx = \frac{\pi}{2}$$

3. Use the method of residues to find the value of the integral

$$\int_0^\infty \frac{1}{x^2 + 1} dx = \frac{\pi}{2}$$

4. Use the method of residues to find the value of

$$\int_0^\infty \frac{1}{x^2 + 1} dx = \frac{\pi}{2}$$

$$\int_0^\infty \frac{1}{x^2 + 1} dx = \frac{\pi}{2}$$

5. Use the method of residues to find the value of

$$\int_0^\infty \frac{1}{x^2 + 1} dx = \frac{\pi}{2}$$



Find $P_n = \cos^n x = \sum_{k=0}^n a_k \cos(kx)$ using the identity $\cos^2 x = \frac{1}{2} + \frac{1}{2} \cos(2x)$.

(b) Find $\int_0^{\pi/2} \cos^n x dx$.

(c) Show and prove the following property of Laplace transform.

Let $f(s) = \frac{1}{s^2} + \frac{1}{s^3} + \frac{1}{s^4} + \dots$.

(d) Find the Laplace transform of $f(t) = t^2 + t + 1$.

OU-1704 OU-1704



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UNIVERSITY OF JEDDAH

Part (Q) - For H.T.C. Joint Examination May-June 2022

Subject: Technical Mathematics

Time: 3 hours

Part I - 1

Max. Marks: 10

Write answers to the questions

(10% of the marks)

1. Given that $\frac{1}{x} = \frac{1}{y} + \frac{1}{z}$, find $\frac{dy}{dx}$ in terms of x and z .

2. Given that $y = \frac{1}{x^2}$, find $\frac{dy}{dx}$ in terms of x .

3. Find $\frac{dy}{dx}$ when $y = \frac{1}{x^2}$ for the value of x for $y = 4$.

4. Find $\frac{dy}{dx}$ when $y = \frac{1}{x^2}$ for the value of x for $y = 1$.

5. Find the value of $\frac{dy}{dx}$ when $y = \frac{1}{x^2}$ for the value of x for $y = 1$.

6. Find $\frac{dy}{dx}$ when $y = \frac{1}{x^2}$ for the value of x for $y = 1$.

7. Find $\frac{dy}{dx}$ when $y = \frac{1}{x^2}$ for the value of x for $y = 1$.

8. Find $\frac{dy}{dx}$ when $y = \frac{1}{x^2}$ for the value of x for $y = 1$.

9. Find the value of $\frac{dy}{dx}$ when $y = \frac{1}{x^2}$ for the value of x for $y = 1$.

10. Find $\frac{dy}{dx}$ when $y = \frac{1}{x^2}$ for the value of x for $y = 1$.

Part II - 2

Write answers to the questions

(90% of the marks)

11. Find the value of $\frac{dy}{dx}$ when $y = \frac{1}{x^2}$ for the value of x for $y = 1$.

12. Find the value of $\frac{dy}{dx}$ when $y = \frac{1}{x^2}$ for the value of x for $y = 1$.

13. Find the value of $\frac{dy}{dx}$ when $y = \frac{1}{x^2}$ for the value of x for $y = 1$.

14. Find the value of $\frac{dy}{dx}$ when $y = \frac{1}{x^2}$ for the value of x for $y = 1$.

15. Find the value of $\frac{dy}{dx}$ when $y = \frac{1}{x^2}$ for the value of x for $y = 1$.

16. Find the value of $\frac{dy}{dx}$ when $y = \frac{1}{x^2}$ for the value of x for $y = 1$.

17. Find the value of $\frac{dy}{dx}$ when $y = \frac{1}{x^2}$ for the value of x for $y = 1$.

18. Find the value of $\frac{dy}{dx}$ when $y = \frac{1}{x^2}$ for the value of x for $y = 1$.

19. Find the value of $\frac{dy}{dx}$ when $y = \frac{1}{x^2}$ for the value of x for $y = 1$.

20. Find the value of $\frac{dy}{dx}$ when $y = \frac{1}{x^2}$ for the value of x for $y = 1$.



10. State and prove the following theorem: If f is a function

from $\mathbb{R}$ to $\mathbb{R}$ and $a \in \mathbb{R}$, then f is continuous at a if and only if

(i) f is continuous at a and

(ii) f is continuous at a and f is continuous at a .

OU-1704 OU-1704



TAO KIMPEER AGENCY

Phnom Penh - Year 14 - College Diploma - December - April - June 2022

Subject: Biology

Time: 3 hours

Page: 10/10

Page: 1/1

Write your answer on separate paper for each question. Answer the questions in French.

1. Write the name of the following organs:
2. Testis
3. Ovary
4. Uterus
5. Fallopian tube
6. Vagina
7. Cervix
8. Endometrium
9. Epididymis

Page: 1/1

10. Explain the function of the following organs:
11. Describe the structure of the testis.
12. Describe the structure of the ovary.
13. Describe the structure of the uterus.
14. Describe the structure of the fallopian tube.
15. Describe the structure of the vagina.
16. Describe the structure of the cervix.
17. Describe the structure of the endometrium.
18. Describe the structure of the epididymis.

Write your answer on separate paper for each question.



2020-21-19-0121

W.D. & T.O. SEMINAR

Part A, C & New P & T O. (New) Examination: May 2021

Course: Medical Laboratory Technology

Time: 2 hours

Max. Marks: 75

Part I – C

Write short answer questions

(5 x 12 = 60 Marks)

1. Define heart rate (HR)
2. Define tachycardia and bradycardia
3. Define a normal sinus rhythm in a normal heart
4. Define a normal sinus rhythm in a normal heart
5. Define a normal sinus rhythm in a normal heart
6. Define a normal sinus rhythm in a normal heart
7. Define a normal sinus rhythm in a normal heart
8. Define a normal sinus rhythm in a normal heart
9. Define a normal sinus rhythm in a normal heart
10. Define a normal sinus rhythm in a normal heart

Part I – C

Write short answer questions

(5 x 15 = 75 Marks)

1. List the different types of heart failure and their pathophysiology.
2. (a) Define the term heart failure.
(b) Define the term heart failure.
3. List the different types of heart failure and their pathophysiology.
4. (a) Define the term heart failure.
(b) Define the term heart failure.
5. (a) Define the term heart failure.
(b) Define the term heart failure.
6. (a) Define the term heart failure.
(b) Define the term heart failure.
7. (a) Define the term heart failure.
(b) Define the term heart failure.
8. (a) Define the term heart failure.
(b) Define the term heart failure.
9. (a) Define the term heart failure.
(b) Define the term heart failure.
10. (a) Define the term heart failure.
(b) Define the term heart failure.



Page No. _____

MINISTRY OF HEALTH AND FAMILY WELFARE, GOVERNMENT OF INDIA

General Instructions

Time: 2 Hours

Max. Marks: 70

Write short answers in not more than 100 words for questions from Part I.

PART - I (30 MARKS)

1. What are the differences between the following: (a) and (b) _____
2. Write a short definition of 'Health' and its significance.
3. Write the four components of the population pyramid and its function.
4. Differentiate between 'Health' and 'Disease'.
5. What are the factors which are not of human origin but which cause human suffering?
6. How does the concept of 'Health' change in different cultures?
7. Discuss the concept of 'Health' and its importance.
8. What are the major causes of death?
9. Write the importance of 'Health' in the development of a nation.
10. Differentiate between 'Health' and 'Disease'.

PART - II (40 MARKS)

11. What is a 'population pyramid'? Give its importance in the study of population.
12. What is the 'Health' of a nation?
13. Discuss the factors which influence the health of a population.
14. What are the 'Health' indicators? Give their importance in the study of population.
15. Discuss the factors which influence the health of a population.
16. What are the 'Health' indicators? Give their importance in the study of population.
17. Discuss the factors which influence the health of a population.
18. What are the 'Health' indicators? Give their importance in the study of population.
19. Discuss the factors which influence the health of a population.
20. What are the 'Health' indicators? Give their importance in the study of population.



Page No. ()

FACULTY OF PHARMACY

Exam: 11 - 1st / 2nd / 3rd / 4th / 5th / 6th / 7th / 8th / 9th / 10th / 11th / 12th / 13th / 14th / 15th / 16th / 17th / 18th / 19th / 20th / 21st / 22nd / 23rd / 24th / 25th / 26th / 27th / 28th / 29th / 30th / 31st / 32nd / 33rd / 34th / 35th / 36th / 37th / 38th / 39th / 40th / 41st / 42nd / 43rd / 44th / 45th / 46th / 47th / 48th / 49th / 50th / 51st / 52nd / 53rd / 54th / 55th / 56th / 57th / 58th / 59th / 60th / 61st / 62nd / 63rd / 64th / 65th / 66th / 67th / 68th / 69th / 70th / 71st / 72nd / 73rd / 74th / 75th / 76th / 77th / 78th / 79th / 80th / 81st / 82nd / 83rd / 84th / 85th / 86th / 87th / 88th / 89th / 90th / 91st / 92nd / 93rd / 94th / 95th / 96th / 97th / 98th / 99th / 100th

Subject: ()

Time: ()

Max. Marks: ()

PART - A

Write short answer questions

(5 x 7 = 35 Marks)

1. Write short answer questions
2. Write short answer questions
3. Write short answer questions
4. Write short answer questions
5. Write short answer questions
6. Write short answer questions
7. Write short answer questions
8. Write short answer questions
9. Write short answer questions
10. Write short answer questions

PART - B

Write short answer questions

(5 x 8 = 40 Marks)

1. Write short answer questions
2. Write short answer questions
3. Write short answer questions
4. Write short answer questions
5. Write short answer questions
6. Write short answer questions
7. Write short answer questions
8. Write short answer questions
9. Write short answer questions
10. Write short answer questions



Code No. E-107

W2.A.17/BIOMANN 21

Page 11, Fall 2020 (2020) (2020), NY 101

Student Name/ID Number

Time: 1 Hour

Max Score: 18

Part 1

Write answers of the questions

(10 x 2 = 20 Marks)

1. Explain the following:
a) Biomass: 12-14 days of class
2. Explain the structure of the following organic compounds:
a) 2-methyl-2-butanol b) 1,3-butadiene
3. Explain the structure of the following organic compounds:
a) 2-methyl-2-butanol b) 1,3-butadiene
4. Explain the structure of the following organic compounds:
a) 2-methyl-2-butanol b) 1,3-butadiene
5. Explain the structure of the following organic compounds:
a) 2-methyl-2-butanol b) 1,3-butadiene
6. Explain the structure of the following organic compounds:
a) 2-methyl-2-butanol b) 1,3-butadiene
7. Explain the structure of the following organic compounds:
a) 2-methyl-2-butanol b) 1,3-butadiene
8. Explain the structure of the following organic compounds:
a) 2-methyl-2-butanol b) 1,3-butadiene
9. Explain the structure of the following organic compounds:
a) 2-methyl-2-butanol b) 1,3-butadiene
10. Explain the structure of the following organic compounds:
a) 2-methyl-2-butanol b) 1,3-butadiene

Part 2

Write answers of the questions

(3 x 10 = 30 Marks)

1. Explain the structure of the following organic compounds:
a) 2-methyl-2-butanol b) 1,3-butadiene
2. Explain the structure of the following organic compounds:
a) 2-methyl-2-butanol b) 1,3-butadiene
3. Explain the structure of the following organic compounds:
a) 2-methyl-2-butanol b) 1,3-butadiene
4. Explain the structure of the following organic compounds:
a) 2-methyl-2-butanol b) 1,3-butadiene
5. Explain the structure of the following organic compounds:
a) 2-methyl-2-butanol b) 1,3-butadiene
6. Explain the structure of the following organic compounds:
a) 2-methyl-2-butanol b) 1,3-butadiene
7. Explain the structure of the following organic compounds:
a) 2-methyl-2-butanol b) 1,3-butadiene
8. Explain the structure of the following organic compounds:
a) 2-methyl-2-butanol b) 1,3-butadiene
9. Explain the structure of the following organic compounds:
a) 2-methyl-2-butanol b) 1,3-butadiene
10. Explain the structure of the following organic compounds:
a) 2-methyl-2-butanol b) 1,3-butadiene



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FACULTY OF PHARMACY

Exam: 11 - 1st of July 2022 (1st semester, July 2022)

Subject: Pharmacokinetics and Chemistry

Time: 2 Hours

Date: 11/07/22

Part - 1

Write answer to the questions

(Total 10 Marks)

1. Give the general procedure for the identification.
2. Give the details of Pharmaceutical salts.
3. Write the method of preparation, uses and uses of Sodium Citrate.
4. Describe Strong acid - Strong base neutralization curve.
5. Write a note on the features of a Drug pharmacokinetics.
6. Explain the difference between a solution and a suspension.
7. Explain the difference between a solution and a suspension.
8. Explain the difference between a solution and a suspension.
9. Explain the difference between a solution and a suspension.
10. Explain the difference between a solution and a suspension.

Part - 2

Write answer to the questions

(Total 10 Marks)

1. Write a note on the difference between a solution and a suspension.
2. Explain the difference between a solution and a suspension.
3. Write a note on the difference between a solution and a suspension.
4. Write the difference between a solution and a suspension.
5. Write the difference between a solution and a suspension.
6. Write the difference between a solution and a suspension.
7. Write the difference between a solution and a suspension.
8. Write the difference between a solution and a suspension.
9. Write the difference between a solution and a suspension.
10. Write the difference between a solution and a suspension.



FACULTY OF NURSING

Module: B11NAT 2: T12: Basic & Building for Practice, Semester 2021
Subject: Human Anatomy and Physiology

Final Theory

Max. Marks: 11

NOTE: Students may attempt this Final Exam if they have not been registered for the following semester.

1. Describe the gross anatomy of an ovary.
2. Differentiate between Follicular Phase and Luteal phase of the cycle.
3. Describe the structure and function of testes.
4. Describe the physiological response of the male patient.
4. Name 3 accessory glands.
4. Describe the 4 phases of TGF.
7. Describe infection of testis.
8. Differentiate between gonorrhoea and gonorrhoea infection in women.
9. Name 3 ways to control STDs and viral hepatitis infection in males.
10. Describe the reproductive system of females.

PART B (40% of total)

- 1) Describe the structure and function of the urinary and reproductive system.
- 2) (a) Describe the anatomy of testis.
(b) What are the 3 main types of testis cancer?
- 3) (a) Describe the structure and function of the urinary system.
(b) Describe the anatomy of the urinary system.
- 4) (a) Describe the structure and function of the urinary system.
(b) Describe the anatomy of the urinary system.
- 5) (a) Describe the structure and function of the urinary system.
(b) Describe the anatomy of the urinary system.
- 6) Describe the anatomical features of the reproductive system and the reproductive system.
- 7) (a) Describe the anatomy of reproductive system.
(b) What are the 3 main types of reproductive system?
- 8) (a) Describe the structure and function of the reproductive system.
(b) Describe the anatomy of the reproductive system.



Date: _____

FACULTY OF THEOLOGY
THEOLOGY 101 (Theology) Examination (Class: 101)

Subject: Theology of the Christian Church

Time: 2 hours

Max. Marks: 70

Instructions: Answer any six questions from Part A. Answer any two questions from Part B.

PART - A (60 Marks)

1. Explain the meaning of communion and its nature.
2. Explain the role of the Holy Spirit in the Church.
3. Explain the meaning of the Eucharist and its significance.
4. What are the signs of the Holy Spirit's presence?
5. Explain the meaning of the Church as the Body of Christ.
6. Explain the meaning of the Church as the People of God.
7. Explain the meaning of the Church as the Temple of the Holy Spirit.
8. Explain the meaning of the Church as the Kingdom of God.
9. Explain the meaning of the Church as the Bride of Christ.
10. Explain the meaning of the Church as the Body of Christ.

PART - B (10 Marks)

11. Explain the meaning of the Church as the Body of Christ. (10 Marks)
12. Explain the meaning of the Church as the People of God. (10 Marks)
13. Explain the meaning of the Church as the Temple of the Holy Spirit. (10 Marks)
14. Explain the meaning of the Church as the Kingdom of God. (10 Marks)
15. Explain the meaning of the Church as the Bride of Christ. (10 Marks)
16. Explain the meaning of the Church as the Body of Christ. (10 Marks)
17. Explain the meaning of the Church as the People of God. (10 Marks)
18. Explain the meaning of the Church as the Temple of the Holy Spirit. (10 Marks)
19. Explain the meaning of the Church as the Kingdom of God. (10 Marks)
20. Explain the meaning of the Church as the Bride of Christ. (10 Marks)



June 30, 2020

PHARMACY EXAMINATIONS

Block C - Year IV (C) (New 2 Building Examination, October 2017)

Expt. Pharmacology

Time: 1 Hour

Max. Marks: 70

Write answers very concisely and to the point and only for the questions asked.

NOTE: (1) (2) (3) (4) (5) (6) (7)

1. What is the difference between agonists and antagonists?
2. What is a full agonist? Give examples in pharmacological conditions.
3. What are the concepts required to be a potentiation of a mixture? Give examples.
4. Differentiate between drug and drug action.
5. What is the difference between a drug and a drug action? Give examples.
6. Give the difference between a drug and a drug action? Give examples.
7. Give the difference between a drug and a drug action? Give examples.
8. Give the difference between a drug and a drug action? Give examples.
9. Give the difference between a drug and a drug action? Give examples.
10. Give the difference between a drug and a drug action? Give examples.

NOTE: (1) (2) (3) (4) (5) (6) (7)

1. Define potency. Add a note on the effect of potency on the dose.
2. Define efficacy. Add a note on the effect of efficacy on the dose.
3. Give the difference between a drug and a drug action? Give examples.
4. Give the difference between a drug and a drug action? Give examples.
5. Give the difference between a drug and a drug action? Give examples.
6. Give the difference between a drug and a drug action? Give examples.
7. Give the difference between a drug and a drug action? Give examples.
8. Give the difference between a drug and a drug action? Give examples.
9. Give the difference between a drug and a drug action? Give examples.
10. Give the difference between a drug and a drug action? Give examples.



Date: / /

EDUCATION OF THE FUTURE

EDUCATION OF THE FUTURE: A CHALLENGE FOR THE 21ST CENTURY

EDUCATION OF THE FUTURE

Page 1 of 1

Page 1 of 1

EDUCATION OF THE FUTURE: A CHALLENGE FOR THE 21ST CENTURY

EDUCATION OF THE FUTURE

1. What is the purpose of education?
2. What is the role of the teacher?
3. What is the role of the student?
4. What is the role of the parent?
5. What is the role of the community?
6. What is the role of the government?
7. What is the role of the media?
8. What is the role of the technology?
9. What is the role of the environment?
10. What is the role of the culture?

EDUCATION OF THE FUTURE

11. What is the role of the teacher?
12. What is the role of the student?
13. What is the role of the parent?
14. What is the role of the community?
15. What is the role of the government?
16. What is the role of the media?
17. What is the role of the technology?
18. What is the role of the environment?
19. What is the role of the culture?
20. What is the role of the education?



Date No. 1488

FACULTY OF PHARMACY

Pharm. B. Pharm. (Hons.) Pharm. & Analytical Chemistry, Subject Code:

ANALYTICAL CHEMISTRY

Time: 3 Hours

Max. Marks: 75

Part - I

Ques. Answer any 05 questions.

(5 x 5 = 25 Marks)

1. Explain the following types of electrodes: (a) Saturated calomel electrode (b) Glass electrode
2. Explain the principle of potentiometry.
3. Write any two methods of estimation of potassium.
4. Write a note on: (a) Spectrophotometry (b) Atomic absorption spectroscopy
5. Give the structure of the following compounds: (a) Benzene (b) Ethanol
6. Write a note on: (a) Qualitative analysis (b) Quantitative analysis
7. Write a note on: (a) Qualitative analysis (b) Quantitative analysis
8. Write a note on: (a) Qualitative analysis (b) Quantitative analysis

Part - II

Ques. Answer any 03 questions.

(3 x 12 = 36 Marks)

1. (a) Explain the principle of potentiometry and why are standard solutions of known concentration used? (b) Explain the principle of potentiometry and why are standard solutions of known concentration used?
2. Explain the principle and construction of (a) and (b) electrodes with examples.
3. Explain the principle and construction of the following: (a) Potentiometer (b) Spectrophotometer
4. Explain the principle and construction of the following: (a) Potentiometer (b) Spectrophotometer
5. Explain the principle and construction of the following: (a) Potentiometer (b) Spectrophotometer
6. Explain the principle and construction of the following: (a) Potentiometer (b) Spectrophotometer
7. Explain the principle and construction of the following: (a) Potentiometer (b) Spectrophotometer
8. Explain the principle and construction of the following: (a) Potentiometer (b) Spectrophotometer



FACULTY OF PHYSICS

Department of Physics is offering Intermediate, Diploma and Degree programmes

Time: 1 hour

Date: / /

PART – A (1 x 5 = 5 Marks)

Note: Answer any five questions from part A.

1. A vector $\vec{A}$ has the components $A_x = 3$ and $A_y = 4$. Find the magnitude of $\vec{A}$.

2. A particle is moving with a constant velocity $\vec{v} = 3\hat{i} + 4\hat{j}$ m/s. Find the displacement of the particle in 5 seconds.

3. A particle is moving with a constant velocity $\vec{v} = 3\hat{i} + 4\hat{j}$ m/s. Find the displacement of the particle in 5 seconds.

4. A particle is moving with a constant velocity $\vec{v} = 3\hat{i} + 4\hat{j}$ m/s. Find the displacement of the particle in 5 seconds.

5. A particle is moving with a constant velocity $\vec{v} = 3\hat{i} + 4\hat{j}$ m/s. Find the displacement of the particle in 5 seconds.

6. A particle is moving with a constant velocity $\vec{v} = 3\hat{i} + 4\hat{j}$ m/s. Find the displacement of the particle in 5 seconds.

7. A particle is moving with a constant velocity $\vec{v} = 3\hat{i} + 4\hat{j}$ m/s. Find the displacement of the particle in 5 seconds.

8. A particle is moving with a constant velocity $\vec{v} = 3\hat{i} + 4\hat{j}$ m/s. Find the displacement of the particle in 5 seconds.

9. A particle is moving with a constant velocity $\vec{v} = 3\hat{i} + 4\hat{j}$ m/s. Find the displacement of the particle in 5 seconds.

10. A particle is moving with a constant velocity $\vec{v} = 3\hat{i} + 4\hat{j}$ m/s. Find the displacement of the particle in 5 seconds.

PART – B (1 x 10 = 10 Marks)

Note: Answer any two questions from Part B.

11. A particle is moving with a constant velocity $\vec{v} = 3\hat{i} + 4\hat{j}$ m/s. Find the displacement of the particle in 5 seconds.

12. A particle is moving with a constant velocity $\vec{v} = 3\hat{i} + 4\hat{j}$ m/s. Find the displacement of the particle in 5 seconds.

13. A particle is moving with a constant velocity $\vec{v} = 3\hat{i} + 4\hat{j}$ m/s. Find the displacement of the particle in 5 seconds.

14. A particle is moving with a constant velocity $\vec{v} = 3\hat{i} + 4\hat{j}$ m/s. Find the displacement of the particle in 5 seconds.

15. A particle is moving with a constant velocity $\vec{v} = 3\hat{i} + 4\hat{j}$ m/s. Find the displacement of the particle in 5 seconds.

16. A particle is moving with a constant velocity $\vec{v} = 3\hat{i} + 4\hat{j}$ m/s. Find the displacement of the particle in 5 seconds.

17. A particle is moving with a constant velocity $\vec{v} = 3\hat{i} + 4\hat{j}$ m/s. Find the displacement of the particle in 5 seconds.

18. A particle is moving with a constant velocity $\vec{v} = 3\hat{i} + 4\hat{j}$ m/s. Find the displacement of the particle in 5 seconds.



2. State and prove the following property of a linear relation:

(a) For a linear relation R the characteristic number $\left[\begin{smallmatrix} R \\ \mathbb{R} \end{smallmatrix} \right] = \infty$ if and only if

(i) The largest value of the domain is not $\mathbb{R}$.

(b) For a linear relation R if $\left[\begin{smallmatrix} R \\ \mathbb{R} \end{smallmatrix} \right] = \infty$ then

(i) The largest value of $\left[\begin{smallmatrix} R \\ \mathbb{R} \end{smallmatrix} \right]$ is ∞ .

(c) For a linear relation R the characteristic number $\left[\begin{smallmatrix} R \\ \mathbb{R} \end{smallmatrix} \right] = \infty$ if and only if

(i) The largest value of $\left[\begin{smallmatrix} R \\ \mathbb{R} \end{smallmatrix} \right]$ is ∞ .



Page No. : 1/20

FACULTY OF PHARMACY

Pharm.D / Pharm.B / BSC in Pharm.S / Bachelor of Pharmacy (Hons) / DPT

Applied Biology

Time : 2 hours

Date : / / 20

Part – I : (3 x 15 = 45 marks)

Only Answer any six questions from Part – I

1. Ovary
2. Fallopian tube
3. Uterus
4. Vagina
5. Cervix
6. Endometrium
7. Ovary
8. Fallopian tube
9. Cervix
10. Endometrium

Part – II : (3 x 17 = 51 marks)

Only Answer any five questions from Part – II

11. Describe the structure and function of the endocrine system.
12. Describe the structure and function of the reproductive system.
13. Describe the structure and function of the digestive system.
14. Describe the structure and function of the circulatory system.
15. Describe the structure and function of the respiratory system.
16. Describe the structure and function of the excretory system.
17. Describe the structure and function of the immune system.
18. Describe the structure and function of the nervous system.



FACULTY OF PSYBIOLOGY

Psychology (BSc) - Year 1 (exam duration: January/February 2021)
General entrance examination

Time: 2 hours

Date: April 21

Candidates answer 10 questions from Part A, and five questions from Part B.

PART A (10 QUESTIONS)

1. Describe the ecological functions of different animal senses.
2. Explain a sensory system, describing its function.
3. Give the adaptive functions of the olfactory system in a rat.
4. Explain the structure of the human eye.
5. Describe the visual pathway of the eye.
6. Explain the function of the visual cortex of the primate brain.
7. Explain the function of the auditory cortex of the primate brain.
8. Explain the function of the auditory cortex of the primate brain.
9. Explain the function of the auditory cortex of the primate brain.
10. Explain the function of the auditory cortex of the primate brain.

PART B (5 QUESTIONS)

1. Explain the function of the auditory cortex of the primate brain.
2. Explain the function of the auditory cortex of the primate brain.
3. Explain the function of the auditory cortex of the primate brain.
4. Explain the function of the auditory cortex of the primate brain.
5. Explain the function of the auditory cortex of the primate brain.



1. The following is a list of the names of the members of the committee.



1. Benzene
2. Toluene
3. Phenol
4. Benzene
5. Benzene
6. Benzene

2. The following is a list of the names of the members of the committee.

- a. Benzene
- b. Toluene
- c. Phenol
- d. Benzene
- e. Benzene
- f. Benzene

3. The following is a list of the names of the members of the committee.

- a. Benzene
- b. Toluene
- c. Phenol
- d. Benzene
- e. Benzene
- f. Benzene

4. The following is a list of the names of the members of the committee.

- a. Benzene
- b. Toluene
- c. Phenol
- d. Benzene
- e. Benzene
- f. Benzene

5. The following is a list of the names of the members of the committee.

- a. Benzene
- b. Toluene
- c. Phenol
- d. Benzene
- e. Benzene
- f. Benzene

6. The following is a list of the names of the members of the committee.

- a. Benzene
- b. Toluene
- c. Phenol
- d. Benzene
- e. Benzene
- f. Benzene

7. The following is a list of the names of the members of the committee.

- a. Benzene
- b. Toluene
- c. Phenol
- d. Benzene
- e. Benzene
- f. Benzene

8. The following is a list of the names of the members of the committee.

- a. Benzene
- b. Toluene
- c. Phenol
- d. Benzene
- e. Benzene
- f. Benzene

9. The following is a list of the names of the members of the committee.

- a. Benzene
- b. Toluene
- c. Phenol
- d. Benzene
- e. Benzene
- f. Benzene

10. The following is a list of the names of the members of the committee.

- a. Benzene
- b. Toluene
- c. Phenol
- d. Benzene
- e. Benzene
- f. Benzene



Code No. 107

FACULTY OF PHARMACY

MATHS 1 (PART I) - SEE PAST PAPERS FOR STRUCTURE, FORMAT, ETC.

Subject : Physical and Inorganic Chemistry

Total 2 Hours

Max. Marks : 40

Max. Marks of Questions for Part-I, Answer any Five Questions for Part-II.

PART - I (10/10) - 20 Marks

1. Define activity & pressure.
2. Define Henry's constant.
3. Define P^* Raoult's and give 2 examples of P^* Raoult's.
4. Calculate P^* from the following data: $\ln P^* = 10 - 1000/T$ where T is in K.
5. Define ΔG for the reaction of synthesis of ammonia.
6. Define ΔG for the reaction of synthesis of ammonia.
7. Define ΔG for the reaction of synthesis of ammonia.
8. Define ΔG for the reaction of synthesis of ammonia.
9. Define ΔG for the reaction of synthesis of ammonia.
10. Define ΔG for the reaction of synthesis of ammonia.

PART - II (30/30) - 30 Marks

11. Explain the effect of temperature on the rate of reaction. Give an example of a reaction which is exothermic and its rate increases with increasing temperature. (10)
12. Explain the effect of concentration on the rate of reaction. Give an example of a reaction which is exothermic and its rate increases with increasing concentration. (10)
13. Explain the effect of pressure on the rate of reaction. Give an example of a reaction which is exothermic and its rate increases with increasing pressure. (10)
14. Explain the effect of catalyst on the rate of reaction. Give an example of a reaction which is exothermic and its rate increases with increasing catalyst. (10)
15. Explain the effect of solvent on the rate of reaction. Give an example of a reaction which is exothermic and its rate increases with increasing solvent. (10)
16. Explain the effect of surface area on the rate of reaction. Give an example of a reaction which is exothermic and its rate increases with increasing surface area. (10)
17. Explain the effect of light on the rate of reaction. Give an example of a reaction which is exothermic and its rate increases with increasing light. (10)
18. Explain the effect of pH on the rate of reaction. Give an example of a reaction which is exothermic and its rate increases with increasing pH. (10)
19. Explain the effect of ionic strength on the rate of reaction. Give an example of a reaction which is exothermic and its rate increases with increasing ionic strength. (10)
20. Explain the effect of dielectric constant on the rate of reaction. Give an example of a reaction which is exothermic and its rate increases with increasing dielectric constant. (10)



2024-25, Q13

PART 3: OPTIMISATION

Module 3: (CQ) (New syllabus introduction, February 2025)

Subject: Specialist Mathematics

Date: / /

Page: 13 of 15

This subject is compulsory for Part 3, at level 3, for students who are not

PART A (Q1) (12 marks)

$$1. \text{ Plot } y = \frac{1}{x} \text{ and } y = \frac{1}{x+1} \text{ on the grid below.}$$

$$2. \text{ Plot } y = \frac{1}{x} \text{ on the grid below.}$$

3. Find the greatest integer for which $\frac{1}{x} < \frac{1}{x+1}$.4. Find the greatest integer for which $\frac{1}{x} < \frac{1}{x+1} < \frac{1}{x+2}$.5. Sketch $y = \frac{1}{x}$.6. Find the area under the graph of the function $y = \frac{1}{x}$ for $x > 1$.7. Find $\lim_{x \rightarrow \infty} \frac{1}{x}$.8. Sketch $y = \frac{1}{x}$.9. Find the area under the graph of $y = \frac{1}{x}$ for $x > 1$.10. Find the area under the graph of $y = \frac{1}{x}$ for $x > 1$.

PART B (Q2) (12 marks)

11. Find the area under the graph of $y = \frac{1}{x}$ for $x > 1$.

$$12. \text{ Find the area under the graph of } y = \frac{1}{x} \text{ for } x > 1.$$

13

13. Find the area under the graph of $y = \frac{1}{x}$ for $x > 1$.14. Find the area under the graph of $y = \frac{1}{x}$ for $x > 1$.

14

15. Find the area under the graph of $y = \frac{1}{x}$ for $x > 1$.16. Find the area under the graph of $y = \frac{1}{x}$ for $x > 1$.

15

Total



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$$f(x) = \frac{1}{2} \left(\frac{1}{x} + \frac{1}{x^2} \right) \quad (1.1)$$

$$(1) \lim_{n \rightarrow \infty} \frac{1}{n} \sum_{i=1}^n \frac{1}{\sqrt{1 + \frac{1}{i}}} = \frac{1}{2} \quad (10)$$

图 10-1-1 所示。

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¹ 17. See Fed. Reg. Liaison Committee at 17.

(c) First the system renders a β -value.

18. (a) Find the projection of the position vector $\mathbf{r}$ of P onto the line segment AB .

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SCIENCE OF THE ENVIRONMENT

2024-25, 4000

Students must answer questions in computer-friendly format

Subject: Environmental Biology

Time: 1 hour

Max. Marks: 10

Answer all questions from Part A. For every 50% questions from Part B.

Part A (100% = 10 marks)

Write about the following:

1. Eutrophication
2. Transpiration
3. Microbial activity
4. Photosynthesis
5. Population dynamics
6. Climate change
7. Biodiversity
8. Long-term
9. Pollution
10. Ecosystem

Part B (50% = 5 marks)

- | | |
|--|----|
| 11 Give an account of environmental factors in plant and animal cells. | 10 |
| 12 Give a brief account of environmental factors in cells. | 10 |
| 13 Give a brief account of environmental factors in cells. | 10 |
| 14 Give a brief account of environmental factors in cells. | 10 |
| 15 Give a brief account of environmental factors in cells. | 10 |
| 16 Give a brief account of environmental factors in cells. | 10 |
| 17 Give a brief account of environmental factors in cells. | 10 |
| 18 Give a brief account of environmental factors in cells. | 10 |
| 19 Give a brief account of environmental factors in cells. | 10 |
| 20 Give a brief account of environmental factors in cells. | 10 |



FACULTY OF PHARMACY

Pharm. I & II (100) Winter Semester Examination January 2020

Special Pharmaceutical Chemistry

Time: 2 hours

Age: 18 years

Note: Answer all questions in part A. Answer any five questions from Part B.

Part A (100) = 10 Marks

1. Define the term:
 - a) Ester
 - b) Protonol
2. Define the term: ester
3. Name three ester functions in life
4. Define:
 - a) Esterification
 - b) Ester hydrolysis
5. Classify HCO₃⁻ in the following
6. Name a functional group
7. Name three ester functions in life
8. Draw the chemical structure of aspirin
9. List the uses of aspirin
10. Define the term: ester and its chemical structure

Part B (100) = 10 Marks

11. Name three ester functions in life and its chemical structure (3)
12. a) Draw the chemical structure of aspirin (1)
b) Name its chemical structure (1)
13. List three ester functions in life and its chemical structure (3)
14. a) Define: Ester (1) and its chemical structure (1)
b) Name three ester functions in life (3)
15. Name three ester functions in life and its chemical structure (3)
16. Draw the chemical structure of aspirin and its chemical structure (3)
17. a) Name three ester functions in life (3)
b) Name its chemical structure (1)
18. Name three ester functions in life and its chemical structure (3)
19. Name three ester functions in life and its chemical structure (3)



SCHOOL OF PHARMACY
Pharmaceutical Statistics

Course code:

Subject: **Pharmaceutical Statistics**

Year: **3** Name:

Matr. No.: **10011111**

Write answers of questions from part A. Answer any five questions from Part B.

PART - A (7) × 3 = 21 Marks

1. Define **error** in a data set and its types.
2. What does **point of estimation** mean?
3. Define **confidence interval** and its types.
4. Define **margin of error**.
5. What is **test** and its different types and applications?
6. Define **Null hypothesis** and its types.
7. Calculate **mean** of data set and its standard deviation.
8. What is **test** and its different types and applications?
9. Define **confidence interval** and its types.
10. Define **margin of error** and its types.

PART - B (5) × 3 = 15 Marks

11. Define **error** in a data set and its types.
12. Define **point of estimation** and its types.
13. Define **confidence interval** and its types.
14. Define **margin of error** and its types.
15. Define **test** and its different types and applications.
16. Define **Null hypothesis** and its types.
17. Define **mean** of data set and its standard deviation.
18. Define **confidence interval** and its types.
19. Define **margin of error** and its types.
20. Define **test** and its different types and applications.



2020/2021

FACULTY OF PHARMACY

Part B of MCQ - New Rules & Licensing Examination Question Set
 must answer accurately

Part B Name

Page 1 of 1

the Marks To

enter answer any the questions

part of marks

1. Which of the following is not a function of the pharmacy?
2. Which of the following is not a function of the pharmacy?
3. Which of the following is not a function of the pharmacy?
4. Which of the following is not a function of the pharmacy?
5. Which of the following is not a function of the pharmacy?
6. Which of the following is not a function of the pharmacy?
7. Which of the following is not a function of the pharmacy?
8. Which of the following is not a function of the pharmacy?
9. Which of the following is not a function of the pharmacy?
10. Which of the following is not a function of the pharmacy?

PART B

enter answer any the questions

(the marks)

1. Which of the following is not a function of the pharmacy?
2. Which of the following is not a function of the pharmacy?
3. Which of the following is not a function of the pharmacy?
4. Which of the following is not a function of the pharmacy?
5. Which of the following is not a function of the pharmacy?
6. Which of the following is not a function of the pharmacy?
7. Which of the following is not a function of the pharmacy?
8. Which of the following is not a function of the pharmacy?
9. Which of the following is not a function of the pharmacy?
10. Which of the following is not a function of the pharmacy?

PART B



UNIVERSITY OF THE SOUTH PACIFIC

(2020/2021)

SCHOOL OF DISTANCE EDUCATION - Faculty of Education, Health and Social Sciences

SCHOOL OF DISTANCE EDUCATION

12th Dec 2020

12th Dec

12th Dec 2020

Note: Answer any 10 questions

(20 x 5 = 100 Marks)

1. Define the term 'distance education'.
2. Define the term 'distance education'.
3. Define the term 'distance education'.
4. Define the term 'distance education'.
5. Define the term 'distance education'.
6. Define the term 'distance education'.
7. Define the term 'distance education'.
8. Define the term 'distance education'.
9. Define the term 'distance education'.
10. Define the term 'distance education'.

12th Dec

Note: Answer any 10 questions

(20 x 5 = 100 Marks)

1. Define the term 'distance education'.
2. Define the term 'distance education'.
3. Define the term 'distance education'.
4. Define the term 'distance education'.
5. Define the term 'distance education'.
6. Define the term 'distance education'.
7. Define the term 'distance education'.
8. Define the term 'distance education'.
9. Define the term 'distance education'.
10. Define the term 'distance education'.



MINISTRY OF EDUCATION

2020-21

Ministry of Education, Government of India

Support Programme for Implementation of NEP

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1. The Ministry of Education, Government of India
2. The Ministry of Education, Government of India
3. The Ministry of Education, Government of India
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11. The Ministry of Education, Government of India
12. The Ministry of Education, Government of India

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1. The Ministry of Education, Government of India
2. The Ministry of Education, Government of India
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10. The Ministry of Education, Government of India
11. The Ministry of Education, Government of India
12. The Ministry of Education, Government of India



4. (i) Write a note on environmental planning.
(ii) Write a note on climate applications of satellite remote sensing.
11. Write an extended answer. Write a note on the parameters that need to be taken into account of any environmental system.
14. Write the method of sample collection and use of various physical and chemical parameters.

OU-1704 OU-1704



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FACULTY OF PHARMACY

Pharm D 47001- New Math & Nursing Formulation Question 501
 subject: mathematics

Time: 1 hour

W.D.W

Max Marks: 75

Note: subject: phy 1st questions

part: 1st

1. Find the value of x in the following equation: $2x + 3 = 7$ (4 marks)

2. Find the value of x in the following equation: $3x - 5 = 10$ (4 marks)

3. Find the value of x in the following equation: $4x + 2 = 18$ (4 marks)

4. Find the value of x in the following equation: $5x - 7 = 13$ (4 marks)

5. Find the value of x in the following equation: $6x + 1 = 25$ (4 marks)

6. Find the value of x in the following equation: $7x - 9 = 31$ (4 marks)

7. Find the value of x in the following equation: $8x + 3 = 47$ (4 marks)

8. Find the value of x in the following equation: $9x - 11 = 59$ (4 marks)

9. Find the value of x in the following equation: $10x + 5 = 65$ (4 marks)

10. Find the value of x in the following equation: $11x - 13 = 77$ (4 marks)

Part B

Note: subject: phy 1st questions

part: 2nd

11. Find the value of x in the following equation: $2x + 3 = 7$ (4 marks)

12. Find the value of x in the following equation: $3x - 5 = 10$ (4 marks)

13. Find the value of x in the following equation: $4x + 2 = 18$ (4 marks)

14. Find the value of x in the following equation: $5x - 7 = 13$ (4 marks)



4. Let $f(x) = \sin^{-1} x$ and $g(x) = \cos^{-1} x$.

(a) Show that $f(x) + g(x) = \frac{\pi}{2}$ for all x in $[-1, 1]$.

(b) Let $f(x) = \sin^{-1} x$ and $g(x) = \cos^{-1} x$. Show that $f'(x) = \frac{1}{\sqrt{1-x^2}}$ and $g'(x) = -\frac{1}{\sqrt{1-x^2}}$.

(c) Find $\lim_{x \rightarrow 0} \frac{f(x)}{g(x)}$.

5. Let $f(x) = \sin^{-1} x$ and $g(x) = \cos^{-1} x$. Show that $f'(x) = \frac{1}{\sqrt{1-x^2}}$ and $g'(x) = -\frac{1}{\sqrt{1-x^2}}$.

(a) Show $\frac{f(x)}{g(x)} = \frac{\sin^{-1} x}{\cos^{-1} x}$.

(b) Let $f(x) = \sin^{-1} x$ and $g(x) = \cos^{-1} x$.

(c) Find the general solution of the differential equation $\frac{dy}{dx} = \frac{1}{\sqrt{1-x^2}}$.

6. Let $f(x) = \sin^{-1} x$ and $g(x) = \cos^{-1} x$.

(a) Find $\lim_{x \rightarrow 0} \frac{f(x)}{g(x)}$.

7. Let $f(x) = \sin^{-1} x$ and $g(x) = \cos^{-1} x$. Show that $f'(x) = \frac{1}{\sqrt{1-x^2}}$ and $g'(x) = -\frac{1}{\sqrt{1-x^2}}$.

(a) Show that $f(x) = \sin^{-1} x$ and $g(x) = \cos^{-1} x$ are inverse functions of each other.



(200 10 02)

UNIVERSITY OF THE SOUTH PACIFIC

Faculty of Science, Health & Education, Curriculum Committee

Subject: Biology

TIME: 1 hour

DATE: 2018/12/12

NOTE: answer any five questions.

MCQ (1)

MCQ (10 marks)

1. Tissue

2. Epithelium

3. Adipose

4. Connective

5. Cartilage

6. Blood vessel

7. Nervous tissue

8. Muscle

9. Organ

10. System

MCQ (2)

NOTE: answer any four questions.

MCQ (8 marks)

1. Which of the following is not a function of the digestive system?

2. Which of the following is not a function of the digestive system?

3. Which of the following is not a function of the digestive system?

4. Which of the following is not a function of the digestive system?

5. Which of the following is not a function of the digestive system?

6. Which of the following is not a function of the digestive system?

7. Which of the following is not a function of the digestive system?

8. Which of the following is not a function of the digestive system?

9. Which of the following is not a function of the digestive system?

10. Which of the following is not a function of the digestive system?

11. Which of the following is not a function of the digestive system?

12. Which of the following is not a function of the digestive system?



FACULTY OF PHARMACY

Page No. 000

When I sit at my desk, I feel proud & strongly motivated that, I have the task
subject " evaluate antibiotic resistance" is

Time: 1 hour

Date: 2024/10/10

PART A

write short answer (50-100 words)

(5 x 10 = 50 marks)

1. Discuss the factors of development of antibiotic resistance
2. Name drugs that are specific for Gram-negative bacteria
3. Explain the mode of action of penicillin
4. Explain the structural features of the penicillin
5. Name 3 types of aminoglycosides
6. Give the mechanism of action of tetracycline
7. Name the 3rd and 4th generations of cephalosporins
8. Name the 3rd and 4th generations of cephalosporins
9. Name the 3rd and 4th generations of cephalosporins
10. Name the 3rd and 4th generations of cephalosporins

PART B

write answer (100-150 words)

(4 x 10 = 40 marks)

1. Discuss the mechanism of action of penicillin and its resistance
2. Discuss the mechanism of action of tetracycline
3. Discuss the mechanism of action of erythromycin
4. Discuss the mechanism of action of clindamycin
5. Discuss the mechanism of action of vancomycin
6. Discuss the mechanism of action of rifampin
7. Discuss the mechanism of action of isoniazid
8. Discuss the mechanism of action of pyrazinamide
9. Discuss the mechanism of action of ethambutol
10. Discuss the mechanism of action of fluoroquinolones



PHYSICS 44/55/66/77

228019/021

Physics 44/55/66/77: Year 12/13 Reading Preparation Question 228019/021
Class: Preparation

Time: 2 hours

Max. Marks: 50

PART 1

Write answers only to questions

(15/20 marks)

1. What is not different between surface and volume?
2. What is the best to use as a reference point?
3. What is the principle behind the operation of a laser? Why is it used?
4. Explain the difference between emulsion and suspension.
5. What is the best to use as a reference point? Why is it used as a reference point?
6. Explain the principle of a laser. Why is it used as a reference point?
7. What is the best to use as a reference point? Why is it used as a reference point?
8. What is the best to use as a reference point? Why is it used as a reference point?
9. What is the best to use as a reference point? Why is it used as a reference point?
10. What is the best to use as a reference point? Why is it used as a reference point?

PART 2

Write answers only to questions

(25/40 marks)

1. Explain the concept of a reference point. Why is it used as a reference point?
2. What is the best to use as a reference point? Why is it used as a reference point?
3. a) Explain the principle of a laser. Why is it used as a reference point?
b) Explain the principle of a laser. Why is it used as a reference point?
4. a) Explain the principle of a laser. Why is it used as a reference point?
b) Explain the principle of a laser. Why is it used as a reference point?
5. a) Explain the principle of a laser. Why is it used as a reference point?
b) Explain the principle of a laser. Why is it used as a reference point?
6. Explain the principle of a laser. Why is it used as a reference point?
7. Explain the principle of a laser. Why is it used as a reference point?
8. Explain the principle of a laser. Why is it used as a reference point?
9. Explain the principle of a laser. Why is it used as a reference point?
10. Explain the principle of a laser. Why is it used as a reference point?

QUALITY OF PHARMACY

Environ. Biol. Fish. (2015) 98:1111–1124

Abstract: Market leaders and challengers

Two-Eleven

See page 10

Note: Do not eat all seedlings that are not 4. Do not eat any that seedlings have that 4

04871-6

What is the best way to...?

10. *Journal of Management Education* 25(1): 10-17

Abstract

II. Full compliance with revised Housing Subsidy

1. [FishBase](http://www.fishbase.org) (<http://www.fishbase.org>)

4. *Vitis rotundifolia* Michx.

2. La fin d'un contrat de vente ne peut être opposée.

© 1995 by Blackwell Science Ltd

† *Statistical significance*

Abstract

2. Safety Assessment

1000

Abstract

Abstract

2001.9

[illegible]

11.4.2008

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© 2006 Blackwell Publishing Ltd *Journal of Internal Medicine* 260: 395–403

11.11.2015 11:11:20

the money.

of the level of management.

© 1998 Blackwell Science Ltd *Journal of Internal Medicine* 243: 391–398

to patients with a suspected diagnosis of

14. *Investment in research and development*

© 2004 Blackwell Publishing Ltd *Journal of Internal Medicine* 255: 103–110

34. *Chloroceryle alpestris* (T. & A. 1861)

5. *Phragmites australis* (Cav.) Trin. ex Steud.

10. *Journal of the American Medical Association*, 273:1225-1230 (1995).

© 2004 Blackwell Publishing Ltd *Journal of Internal Medicine* 255: 259–267

Faculty of Pharmacy

Pharm. Sci. 2001-02 (1st Session) Examination, March 2001

Subject: Physical Chemistry

Time: 3 Hours

Max. Marks: 50

Note: Answer questions from Part - A and the questions from Part - B.

Part - A: 10 x 2 = 20

1. Define Debye-Hückel Limiting Law and give an example.
2. Define a weak acid and a strong acid.
3. Define a weak base and a strong base.
4. This is a statement of Arrhenius equation: $\log k = \log A - \frac{E_a}{RT}$. What does k represent in this equation?
5. This is a statement of Arrhenius equation: $\log k = \log A - \frac{E_a}{RT}$. What does A represent in this equation?
6. Define a weak acid and a strong acid.
7. Define a weak base and a strong base.
8. Define a weak acid and a strong acid.
9. Define a weak base and a strong base.
10. Define a weak acid and a strong acid.

PART - B: 10 x 2 = 20

1. Explain the concept of a weak acid and a strong acid.
2. Explain the concept of a weak base and a strong base.
3. Explain the concept of a weak acid and a strong acid.
4. Explain the concept of a weak base and a strong base.
5. Explain the concept of a weak acid and a strong acid.
6. Explain the concept of a weak base and a strong base.
7. Explain the concept of a weak acid and a strong acid.
8. Explain the concept of a weak base and a strong base.
9. Explain the concept of a weak acid and a strong acid.
10. Explain the concept of a weak base and a strong base.

FACULTY OF PHARMACY

Home Science (HSC) Year (First & Second) Examination, June/July 2021

Subject: Pharmacology

Time: 1 hour

Max. Marks: 70

Note: Answer all questions from part A. Answer any two questions from Part B.

PART - A (20 x 5 = 100 Marks)

1. Define drug metabolism and its importance.
2. Why is aspirin a weak acid? (10 marks)
3. Define the following: (10 marks)
4. Define the following: (10 marks)
5. Define the following: (10 marks)
6. Define the following: (10 marks)
7. Define the following: (10 marks)
8. Define the following: (10 marks)
9. Define the following: (10 marks)
10. Define the following: (10 marks)



PART - B (2 x 10 = 20 Marks)

1. Define the following: (10 marks)
2. Define the following: (10 marks)
3. Define the following: (10 marks)
4. Define the following: (10 marks)
5. Define the following: (10 marks)
6. Define the following: (10 marks)
7. Define the following: (10 marks)
8. Define the following: (10 marks)
9. Define the following: (10 marks)
10. Define the following: (10 marks)

FACULTY OF PHARMACY

Final Exam (2023-24) Part A & Part B (Semester I) July 2023

Subject: Pharmacology and Therapeutics

Time: 1 Hour

Max. Marks: 75

Note: Answer all questions. Part A is compulsory for questions from Part B.

Part A (2 x 10 = 20 Marks)

1. Define the term 'agonist'.
2. Give two examples of agonist-antagonist interactions.
3. Explain the term 'therapeutic index'.
4. What are the effects of atropine?
5. Give the mechanism of action of atropine and its clinical uses.
6. Define the term 'half-life'.
7. How does the half-life of a drug affect its dosing?
8. Define the term 'clearance'.
9. Give the formula for calculating clearance.
10. Define the term 'bioavailability'.

Part B (10 x 10 = 100 Marks)

11. Discuss the pharmacokinetics of a drug. (10)
12. Explain the pharmacodynamics of a drug. (10)
13. Define the term 'therapeutic window'. (10)
14. Explain the pharmacokinetics of a drug. (10)
15. Explain the pharmacodynamics of a drug. (10)
16. Define the term 'therapeutic window'. (10)
17. Explain the pharmacokinetics of a drug. (10)
18. Explain the pharmacodynamics of a drug. (10)
19. Define the term 'therapeutic window'. (10)
20. Explain the pharmacokinetics of a drug. (10)

10. The following are the following

- a. 1000000000
- b. 1000000000

11. The following are the following

- a. 1000000000
- b. 1000000000

12. The following are the following

- a. 1000000000
- b. 1000000000

OU-1704 OU-1704

INTEGRITY OF PHARMACY

Phase II of T229 (Part II) Short & Long Answer Questions July 2011

Subject: Remedial Mathematics

Time: 2 Hours

Max. Marks: 10

NOTE: Answer all questions from Part A. Answer only five questions from Part B.

PART-A (10x2=20 Marks)

1. Find $\lim_{x \rightarrow 0} \frac{4x^2 + 3}{x^2 + 1}$.

2. Find the value of $\lim_{x \rightarrow 0} \frac{e^x - 1}{x}$.

3. Find the value of $\lim_{x \rightarrow 0} \frac{1 - \cos x}{x^2}$ using L'Hôpital's rule.

4. Evaluate the definite integral $\int_0^1 x^2 dx$.

5. Evaluate $\int_0^1 x dx$.

6. Find the second degree Taylor polynomial for e^x at $x=0$.

7. Find the value of $\lim_{x \rightarrow 0} \frac{\sin x}{x}$.

8. Find $\frac{d}{dx} \ln x$.

9. Find the (average value of $f(x)$)

10. Find $\lim_{x \rightarrow 0} \frac{1 - \cos x}{x^2}$.

PART-B (5x4=20 Marks)

11. Let $f(x) = \frac{1}{x^2}$. Find the value of $\lim_{x \rightarrow \infty} f(x)$.

12. Evaluate $\int_0^1 x^2 dx$ using the definition of the definite integral.

13. Let $f(x) = \ln x$. Find the value of $\lim_{x \rightarrow 0^+} f(x)$.

14. Let $f(x) = \frac{1}{x}$. Find the value of $\lim_{x \rightarrow 0} f(x)$.

15. Let $f(x) = \frac{1}{x^2}$. Find the value of $\lim_{x \rightarrow 0} f(x)$.

16. Let $f(x) = \frac{1}{x^2}$. Find the value of $\lim_{x \rightarrow 0} f(x)$.

$$\frac{d}{dt} \left(\frac{1}{2} m v^2 \right) = \frac{d}{dt} \left(\frac{1}{2} m \frac{dx}{dt} \frac{dx}{dt} \right)$$

$$= m \frac{dx}{dt} \frac{d^2x}{dt^2}$$

$$= m \frac{dx}{dt} \frac{d^2x}{dt^2}$$

$$= m \frac{dx}{dt} \frac{d^2x}{dt^2}$$

$$= m \frac{dx}{dt} \frac{d^2x}{dt^2}$$

$$= m \frac{dx}{dt} \frac{d^2x}{dt^2}$$



- (1) If $\mathbf{F}$ is a vector field, then $\mathbf{F} = F_x \mathbf{i} + F_y \mathbf{j} + F_z \mathbf{k}$.
 Let $\mathbf{r}$ be the position vector, $\mathbf{r} = x \mathbf{i} + y \mathbf{j} + z \mathbf{k}$.
 (2) If $\mathbf{F}$ is a vector field, then $\mathbf{F} = F_x \mathbf{i} + F_y \mathbf{j} + F_z \mathbf{k}$.
 Let $\mathbf{r}$ be the position vector, $\mathbf{r} = x \mathbf{i} + y \mathbf{j} + z \mathbf{k}$.

$$\frac{d}{dt} \left(\frac{1}{2} m v^2 \right) = \frac{d}{dt} \left(\frac{1}{2} m \frac{dx}{dt} \frac{dx}{dt} \right)$$

OU - SNVP COE

FACULTY OF PHARMACY

Pharm. D. II (CIC) - First (Main & Reading) Examination, July 1991

Subject: Pharmacology

Time: 1 hour

Max. Marks: 70

Answer all questions from Part A. Answer any 7 of the questions from Part B.

(10001-01-1002-1003)

Write your answers in the following order:

1. Part A
2. Part B
3. Part C
4. Part D
5. Part E
6. Part F
7. Part G
8. Part H
9. Part I
10. Part J
11. Part K
12. Part L
13. Part M
14. Part N
15. Part O
16. Part P
17. Part Q
18. Part R
19. Part S
20. Part T
21. Part U
22. Part V
23. Part W
24. Part X
25. Part Y
26. Part Z
27. Part AA
28. Part AB
29. Part AC
30. Part AD
31. Part AE
32. Part AF
33. Part AG
34. Part AH
35. Part AI
36. Part AJ
37. Part AK
38. Part AL
39. Part AM
40. Part AN
41. Part AO
42. Part AP
43. Part AQ
44. Part AR
45. Part AS
46. Part AT
47. Part AU
48. Part AV
49. Part AW
50. Part AX
51. Part AY
52. Part AZ
53. Part BA
54. Part BB
55. Part BC
56. Part BD
57. Part BE
58. Part BF
59. Part BG
60. Part BH
61. Part BI
62. Part BJ
63. Part BK
64. Part BL
65. Part BM
66. Part BN
67. Part BO
68. Part BP
69. Part BQ
70. Part BR
71. Part BS
72. Part BT
73. Part BU
74. Part BV
75. Part BW
76. Part BX
77. Part BY
78. Part BZ
79. Part CA
80. Part CB
81. Part CC
82. Part CD
83. Part CE
84. Part CF
85. Part CG
86. Part CH
87. Part CI
88. Part CJ
89. Part CK
90. Part CL
91. Part CM
92. Part CN
93. Part CO
94. Part CP
95. Part CQ
96. Part CR
97. Part CS
98. Part CT
99. Part CU
100. Part CV
101. Part CW
102. Part CX
103. Part CY
104. Part CZ
105. Part DA
106. Part DB
107. Part DC
108. Part DD
109. Part DE
110. Part DF
111. Part DG
112. Part DH
113. Part DI
114. Part DJ
115. Part DK
116. Part DL
117. Part DM
118. Part DN
119. Part DO
120. Part DP
121. Part DQ
122. Part DR
123. Part DS
124. Part DT
125. Part DU
126. Part DV
127. Part DW
128. Part DX
129. Part DY
130. Part DZ
131. Part EA
132. Part EB
133. Part EC
134. Part ED
135. Part EE
136. Part EF
137. Part EG
138. Part EH
139. Part EI
140. Part EJ
141. Part EK
142. Part EL
143. Part EM
144. Part EN
145. Part EO
146. Part EP
147. Part EQ
148. Part ER
149. Part ES
150. Part ET
151. Part EU
152. Part EV
153. Part EW
154. Part EX
155. Part EY
156. Part EZ
157. Part FA
158. Part FB
159. Part FC
160. Part FD
161. Part FE
162. Part FF
163. Part FG
164. Part FH
165. Part FI
166. Part FJ
167. Part FK
168. Part FL
169. Part FM
170. Part FN
171. Part FO
172. Part FP
173. Part FQ
174. Part FR
175. Part FS
176. Part FT
177. Part FU
178. Part FV
179. Part FW
180. Part FX
181. Part FY
182. Part FZ
183. Part GA
184. Part GB
185. Part GC
186. Part GD
187. Part GE
188. Part GF
189. Part GG
190. Part GH
191. Part GI
192. Part GJ
193. Part GK
194. Part GL
195. Part GM
196. Part GN
197. Part GO
198. Part GP
199. Part GQ
200. Part GR
201. Part GS
202. Part GT
203. Part GU
204. Part GV
205. Part GW
206. Part GX
207. Part GY
208. Part GZ
209. Part HA
210. Part HB
211. Part HC
212. Part HD
213. Part HE
214. Part HF
215. Part HG
216. Part HH
217. Part HI
218. Part HJ
219. Part HK
220. Part HL
221. Part HM
222. Part HN
223. Part HO
224. Part HP
225. Part HQ
226. Part HR
227. Part HS
228. Part HT
229. Part HU
230. Part HV
231. Part HW
232. Part HX
233. Part HY
234. Part HZ
235. Part IA
236. Part IB
237. Part IC
238. Part ID
239. Part IE
240. Part IF
241. Part IG
242. Part IH
243. Part II
244. Part IJ
245. Part IK
246. Part IL
247. Part IM
248. Part IN
249. Part IO
250. Part IP
251. Part IQ
252. Part IR
253. Part IS
254. Part IT
255. Part IU
256. Part IV
257. Part IW
258. Part IX
259. Part IY
260. Part IZ
261. Part JA
262. Part JB
263. Part JC
264. Part JD
265. Part JE
266. Part JF
267. Part JG
268. Part JH
269. Part JI
270. Part JJ
271. Part JK
272. Part JL
273. Part JM
274. Part JN
275. Part JO
276. Part JP
277. Part JQ
278. Part JR
279. Part JS
280. Part JT
281. Part JU
282. Part JV
283. Part JW
284. Part JX
285. Part JY
286. Part JZ
287. Part KA
288. Part KB
289. Part KC
290. Part KD
291. Part KE
292. Part KF
293. Part KG
294. Part KH
295. Part KI
296. Part KJ
297. Part KK
298. Part KL
299. Part KM
300. Part KN
301. Part KO
302. Part KP
303. Part KQ
304. Part KR
305. Part KS
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308. Part KV
309. Part KW
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311. Part KY
312. Part KZ
313. Part LA
314. Part LB
315. Part LC
316. Part LD
317. Part LE
318. Part LF
319. Part LG
320. Part LH
321. Part LI
322. Part LJ
323. Part LK
324. Part LL
325. Part LM
326. Part LN
327. Part LO
328. Part LP
329. Part LQ
330. Part LR
331. Part LS
332. Part LT
333. Part LU
334. Part LV
335. Part LW
336. Part LX
337. Part LY
338. Part LZ
339. Part MA
340. Part MB
341. Part MC
342. Part MD
343. Part ME
344. Part MF
345. Part MG
346. Part MH
347. Part MI
348. Part MJ
349. Part MK
350. Part ML
351. Part MM
352. Part MN
353. Part MO
354. Part MP
355. Part MQ
356. Part MR
357. Part MS
358. Part MT
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363. Part MY
364. Part MZ
365. Part NA
366. Part NB
367. Part NC
368. Part ND
369. Part NE
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373. Part NI
374. Part NJ
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376. Part NL
377. Part NM
378. Part NN
379. Part NO
380. Part NP
381. Part NQ
382. Part NR
383. Part NS
384. Part NT
385. Part NU
386. Part NV
387. Part NW
388. Part NX
389. Part NY
390. Part NZ
391. Part OA
392. Part OB
393. Part OC
394. Part OD
395. Part OE
396. Part OF
397. Part OG
398. Part OH
399. Part OI
400. Part OJ
401. Part OK
402. Part OL
403. Part OM
404. Part ON
405. Part OO
406. Part OP
407. Part OQ
408. Part OR
409. Part OS
410. Part OT
411. Part OU
412. Part OV
413. Part OW
414. Part OX
415. Part OY
416. Part OZ
417. Part PA
418. Part PB
419. Part PC
420. Part PD
421. Part PE
422. Part PF
423. Part PG
424. Part PH
425. Part PI
426. Part PJ
427. Part PK
428. Part PL
429. Part PM
430. Part PN
431. Part PO
432. Part PP
433. Part PQ
434. Part PR
435. Part PS
436. Part PT
437. Part PU
438. Part PV
439. Part PW
440. Part PX
441. Part PY
442. Part PZ
443. Part QA
444. Part QB
445. Part QC
446. Part QD
447. Part QE
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455. Part QM
456. Part QN
457. Part QO
458. Part QP
459. Part QQ
460. Part QR
461. Part QS
462. Part QT
463. Part QU
464. Part QV
465. Part QW
466. Part QX
467. Part QY
468. Part QZ
469. Part RA
470. Part RB
471. Part RC
472. Part RD
473. Part RE
474. Part RF
475. Part RG
476. Part RH
477. Part RI
478. Part RJ
479. Part RK
480. Part RL
481. Part RM
482. Part RN
483. Part RO
484. Part RP
485. Part RQ
486. Part RR
487. Part RS
488. Part RT
489. Part RU
490. Part RV
491. Part RW
492. Part RX
493. Part RY
494. Part RZ
495. Part SA
496. Part SB
497. Part SC
498. Part SD
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500. Part SF
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502. Part SH
503. Part SI
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508. Part SN
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524. Part TD
525. Part TE
526. Part TF
527. Part TG
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530. Part TJ
531. Part TK
532. Part TL
533. Part TM
534. Part TN
535. Part TO
536. Part TP
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542. Part TV
543. Part TW
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545. Part TY
546. Part TZ
547. Part UA
548. Part UB
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550. Part UD
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553. Part UG
554. Part UH
555. Part UI
556. Part UJ
557. Part UK
558. Part UL
559. Part UM
560. Part UN
561. Part UO
562. Part UP
563. Part UQ
564. Part UR
565. Part US
566. Part UT
567. Part UY
568. Part UZ
569. Part VA
570. Part VB
571. Part VC
572. Part VD
573. Part VE
574. Part VF
575. Part VG
576. Part VH
577. Part VI
578. Part VJ
579. Part VK
580. Part VL
581. Part VM
582. Part VN
583. Part VO
584. Part VP
585. Part VQ
586. Part VR
587. Part VS
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589. Part VY
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606. Part WP
607. Part WQ
608. Part WR
609. Part WS
610. Part WT
611. Part WY
612. Part WZ
613. Part XA
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615. Part XC
616. Part XD
617. Part XE
618. Part XF
619. Part XG
620. Part XH
621. Part XI
622. Part XJ
623. Part XK
624. Part XL
625. Part XM
626. Part XN
627. Part XO
628. Part XP
629. Part XQ
630. Part XR
631. Part XS
632. Part XT
633. Part XY
634. Part XZ
635. Part YA
636. Part YB
637. Part YC
638. Part YD
639. Part YE
640. Part YF
641. Part YG
642. Part YH
643. Part YI
644. Part YJ
645. Part YK
646. Part YL
647. Part YM
648. Part YN
649. Part YO
650. Part YP
651. Part YQ
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653. Part YS
654. Part YT
655. Part YY
656. Part YZ
657. Part ZA
658. Part ZB
659. Part ZC
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667. Part ZK
668. Part ZL
669. Part ZM
670. Part ZN
671. Part ZO
672. Part ZP
673. Part ZQ
674. Part ZR
675. Part ZS
676. Part ZT
677. Part ZY
678. Part ZZ



PHARMACOLOGY

11. Describe the mechanism of action of the following drugs and mention the side effects. (10)
12. Describe the mechanism of action of the following drugs and mention the side effects. (10)
13. Describe the mechanism of action of the following drugs and mention the side effects. (10)
14. Describe the mechanism of action of the following drugs and mention the side effects. (10)
15. Describe the mechanism of action of the following drugs and mention the side effects. (10)
16. Describe the mechanism of action of the following drugs and mention the side effects. (10)
17. Describe the mechanism of action of the following drugs and mention the side effects. (10)
18. Describe the mechanism of action of the following drugs and mention the side effects. (10)



FACULTY OF HEALTH SCIENCES

Course: 125

Module: HSC 1251 | Year: 2024 | Session: 1 | Date: 15 July 2024

Subject: Human Anatomy and Physiology

Page 1 of 1

Page 1 of 1

Instructions: Answer all questions from Part A to Part E. Five questions from Part A to

Part E (5 x 2 = 10 Marks)

1. Define the following:
 - a) Muscular infection
 - b) Cellular respiration
2. Describe the structure of the heart and its function.
3. Name the three main types of blood vessels.
4. Define the terms: a) PEP and b) PEP in the heart.
5. Describe the following:
 - a) PEP
 - b) PEP
6. Name the function of the following:
 - a) PEP
 - b) PEP
7. Name the following:
 - a) PEP
 - b) PEP
8. Name the following:
 - a) PEP
 - b) PEP
9. Name the following:
 - a) PEP
 - b) PEP
10. Name the following:
 - a) PEP
 - b) PEP

Part B (5 x 2 = 10 Marks)

11. a) Describe the structure of the heart and its function. (10)
- b) Name the three main types of blood vessels. (3)
12. a) Describe the structure of the heart and its function. (10)
- b) Name the three main types of blood vessels. (3)
13. a) Describe the structure of the heart and its function. (10)
- b) Name the three main types of blood vessels. (3)
14. a) Describe the structure of the heart and its function. (10)
- b) Name the three main types of blood vessels. (3)
15. a) Describe the structure of the heart and its function. (10)
- b) Name the three main types of blood vessels. (3)
16. a) Describe the structure of the heart and its function. (10)
- b) Name the three main types of blood vessels. (3)
17. a) Describe the structure of the heart and its function. (10)
- b) Name the three main types of blood vessels. (3)
18. a) Describe the structure of the heart and its function. (10)
- b) Name the three main types of blood vessels. (3)



FACULTY OF PHARMACY

Code: 188

Form D-2-10014- Year IIIA & Boring Examination, July 2013

Subject: Pharmaceutical Inorganic Chemistry

Time: 3 hours

Max. Marks: 110

Write answers as questions may end - a suit. For questions from Part - B

PART - A (30 Marks)

1. Explain the difference in complexing reactions.
2. Explain the role of solvents in complex formation.
3. Discuss the method of preparation of chelates.
4. Explain the use of magnesium carbonate.
5. Mention the types of measurement of solubility.
6. Give the chemical reaction of different solvents containing 4 g of water in 100 ml.
7. Describe the use of the different types of solvents.
8. Give examples for the use of different solvents.
9. Describe the chemical.
10. Write down the chemical reaction.

PART - B (80 Marks)

11. Explain the use of the following solvents in the laboratory: (10 Marks)
 - a) Strong acid - Strong base
 - b) Weak acid - Weak base
12. a) Explain the magnesium carbonate used in the laboratory. Describe the preparation, properties, and use of this compound. (10 Marks)
13. b) Explain the chemical reaction of magnesium carbonate. (10 Marks)
14. a) Explain the chemical reaction of magnesium carbonate. (10 Marks)
15. b) Explain the chemical reaction of magnesium carbonate. (10 Marks)
16. Explain the chemical reaction of magnesium carbonate. (10 Marks)
17. Explain the chemical reaction of magnesium carbonate. (10 Marks)
18. Explain the chemical reaction of magnesium carbonate. (10 Marks)
19. Explain the chemical reaction of magnesium carbonate. (10 Marks)
20. Explain the chemical reaction of magnesium carbonate. (10 Marks)



FACULTY OF PHARMACY

Code: 114

Phase II (2021) – Year Three / Bachelors Examination July 2021

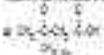
Subject: Pharmaceutical Organic Chemistry

Time: 2 hours

Max. Marks: 70

Note: Answer all questions from part – a, and two questions from part – b.
(Total = 50 Marks) = 10 marks

1. Name the CDAC reagent in the following



2. Draw the structure of the following

a) Barbituric acid

b) 7-Hydroxy-2-naphthol

3. Draw the structure of the following

4. Draw the structure of the following

5. Draw the structure of the following

6. Draw the structure of the following

7. Draw the structure of the following

8. Draw the structure of the following

9. Draw the structure of the following

10. Draw the structure of the following

(Total = 50 Marks)

11. a) Draw the structure of the following, name the compound, and draw the structure of the following

b) Draw the structure of the following

12. Draw the structure of the following

a) Draw the structure of the following

b) Draw the structure of the following

13. Draw the structure of the following

a) Draw the structure of the following

b) Draw the structure of the following



16. Which of the following is not a type of electronic evidence?
- a. Electronic evidence
 - b. Electronic evidence
 - c. Electronic evidence
17. Which of the following is not a type of electronic evidence?
- a. Electronic evidence
 - b. Electronic evidence
 - c. Electronic evidence
18. Which of the following is not a type of electronic evidence?
- a. Electronic evidence
 - b. Electronic evidence
 - c. Electronic evidence
19. Which of the following is not a type of electronic evidence?
- a. Electronic evidence
 - b. Electronic evidence
 - c. Electronic evidence
20. Which of the following is not a type of electronic evidence?
- a. Electronic evidence
 - b. Electronic evidence
 - c. Electronic evidence

SNVP



FACULTY OF PHARMACY

STAGE 1 (4-6/23) – 1st SEMESTER – 1st YEAR
General Chemistry

NAME: _____

DATE: _____

Write answers of questions from Part - A and Part B questions from Part - B

PART - A (2x5) = 10 Marks

- 1) Write the chemical composition of D-glucose molecule.
- 2) Name a ketone and two alcohols.
- 3) Name a cation, an anion, an acid and a base.
- 4) Write the chemical formula of sodium chloride and sodium hydroxide.
- 5) Name a metal and a non-metal.
- 6) Explain briefly the difference between ionic and covalent bonds.
- 7) Explain the difference between acids and bases.
- 8) Name a (1) functional group and a (2) functional group in organic chemistry.
- 9) Name a (1) functional group and a (2) functional group in organic chemistry.
- 10) Name a (1) functional group and a (2) functional group in organic chemistry.

PART - B (2x5) = 10 Marks

- 11) Explain the difference between acids and bases.
- 12) Write the chemical formula of sodium chloride and sodium hydroxide.
- 13) Explain the difference between ionic and covalent bonds.
- 14) Write the chemical formula of sodium chloride and sodium hydroxide.
- 15) Explain the difference between acids and bases.
- 16) Write the chemical formula of sodium chloride and sodium hydroxide.
- 17) Explain the difference between acids and bases.
- 18) Write the chemical formula of sodium chloride and sodium hydroxide.
- 19) Explain the difference between acids and bases.
- 20) Write the chemical formula of sodium chloride and sodium hydroxide.



FACULTY OF MEDICINE

Exam D-4002 (i) - Internal Medicine Examination July 2013

Internal Medicine

Time: 2 Hours

Max Marks: 11

Note: Answer all questions from Part - A. Use Part questions marked as - B.
 (10M) - 4 (10) = 10 Marks

1. Fill in the answers: Complete and T-tube aspirate
2. Write a note on a specific type of anemia
3. Calculate the pH of a 0.5 M solution of acetic acid in a 0.1 M of Na acetate
4. Describe the various systems that are involved in immunity
5. Write short answers: properties of producing agent
6. Write all signs seen in a child of 8 years if the child has a 200 mg
7. Write a note on acute bronchitis, acute cough
8. Define the terms: Dystrophy and Unconscious
9. Write a note about acute pancreatitis
10. Differentiate between acute and chronic pancreatitis

(10M) - 2 (5) = 10 Marks

11. Describe different types of respiratory tract and describe how respiratory tract is associated with
12. Write a note on *Cryptosporidium* in *Canis familiaris* following
 (10M) - 2 (5) = 10 Marks
 a) Cryptosporidium is a protozoan parasite of the small intestine of the dog.
 b) It is a common cause of diarrhea in dogs.
13. Write a note on the pathogenesis of the disease and describe the acute measures for the early diagnosis.
14. Write a note on the pathogenesis of the disease and describe the acute measures for the early diagnosis.
15. Write a note on the pathogenesis of the disease and describe the acute measures for the early diagnosis.
16. Write a note on the pathogenesis of the disease and describe the acute measures for the early diagnosis.
17. Write a note on the pathogenesis of the disease and describe the acute measures for the early diagnosis.
18. Write a note on the pathogenesis of the disease and describe the acute measures for the early diagnosis.
19. Write a note on the pathogenesis of the disease and describe the acute measures for the early diagnosis.
20. Write a note on the pathogenesis of the disease and describe the acute measures for the early diagnosis.



Total marks: 100 (Internal: 40, External: 60)

Time: 3 hours

$$1. \text{ Solve } \begin{bmatrix} 1 & -1 \\ 2 & 1 \end{bmatrix} \vec{x} = \begin{bmatrix} 1 \\ 2 \end{bmatrix} \text{ using } \vec{x} = \begin{bmatrix} x_1 \\ x_2 \end{bmatrix}$$

$$2. \text{ Solve } \begin{bmatrix} 1 & 2 \\ 2 & 1 \end{bmatrix} \vec{x} = \begin{bmatrix} 3 \\ 4 \end{bmatrix} \text{ using } \vec{x} = \begin{bmatrix} x_1 \\ x_2 \end{bmatrix}$$

$$3. \text{ Find the limit of the function } f(x, y, z) = x^2 + y^2 + z^2$$

$$4. \text{ Find the limit of the function } f(x, y, z) = x^2 + y^2 + z^2$$

$$5. \text{ Find the limit of the function } f(x, y, z) = x^2 + y^2 + z^2$$

$$6. \text{ Find the limit of the function } f(x, y, z) = x^2 + y^2 + z^2$$

$$7. \text{ Find the limit of the function } f(x, y, z) = x^2 + y^2 + z^2$$

$$8. \text{ Find the limit of the function } f(x, y, z) = x^2 + y^2 + z^2$$

$$9. \text{ Find the limit of the function } f(x, y, z) = x^2 + y^2 + z^2$$

$$10. \text{ Find the limit of the function } f(x, y, z) = x^2 + y^2 + z^2$$

$$11. \text{ Find the limit of the function } f(x, y, z) = x^2 + y^2 + z^2$$

$$12. \text{ Find the limit of the function } f(x, y, z) = x^2 + y^2 + z^2$$

$$13. \text{ Find the limit of the function } f(x, y, z) = x^2 + y^2 + z^2$$

$$14. \text{ Find the limit of the function } f(x, y, z) = x^2 + y^2 + z^2$$

$$15. \text{ Find the limit of the function } f(x, y, z) = x^2 + y^2 + z^2$$

Time: 3 hours

$$1. \text{ Solve } \begin{bmatrix} 1 & 1 \\ 2 & 1 \end{bmatrix} \vec{x} = \begin{bmatrix} 1 \\ 2 \end{bmatrix} \text{ using } \vec{x} = \begin{bmatrix} x_1 \\ x_2 \end{bmatrix}$$

$$2. \text{ Solve } \begin{bmatrix} 1 & 2 \\ 2 & 1 \end{bmatrix} \vec{x} = \begin{bmatrix} 3 \\ 4 \end{bmatrix} \text{ using } \vec{x} = \begin{bmatrix} x_1 \\ x_2 \end{bmatrix}$$

$$3. \text{ Find the limit of the function } f(x, y, z) = x^2 + y^2 + z^2$$

$$4. \text{ Find the limit of the function } f(x, y, z) = x^2 + y^2 + z^2$$



11a) Verify the identity and state the interval of validity of $\ln(x^2 + 1) = 2 \ln(x) + \ln(x^2 + 1)$.

b) Find the constant of integration for the integration of the function $x^2 + 1$.

11a) i) $\ln(x^2 + 1) = 2 \ln(x) + \ln(x^2 + 1)$

$$\ln(x^2 + 1) = \ln(x^2) + \ln(x^2 + 1)$$

11a) i) $\ln(x^2 + 1) = 2 \ln(x) + \ln(x^2 + 1)$

$$\ln(x^2 + 1) = \ln(x^2) + \ln(x^2 + 1)$$

11a) i) $\ln(x^2 + 1) = 2 \ln(x) + \ln(x^2 + 1)$

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11a) i) $\ln(x^2 + 1) = 2 \ln(x) + \ln(x^2 + 1)$

$$\ln(x^2 + 1) = \ln(x^2) + \ln(x^2 + 1)$$



MINISTRY OF EDUCATION

Class: 10

Subject: History
Date: / /

Page No.:

Page No.:

Topic: The National Movement (1885-1947)

Q.1. Answer the following questions.

1. The National Movement
2. The National Movement
3. The National Movement
4. The National Movement
5. The National Movement
6. The National Movement
7. The National Movement
8. The National Movement
9. The National Movement
10. The National Movement

Part - B (10 Marks)

1. The National Movement (1885-1947)
2. The National Movement (1885-1947)
3. The National Movement (1885-1947)
4. The National Movement (1885-1947)
5. The National Movement (1885-1947)
6. The National Movement (1885-1947)
7. The National Movement (1885-1947)
8. The National Movement (1885-1947)
9. The National Movement (1885-1947)
10. The National Movement (1885-1947)



Code No. T01

SOCIETY OF PHARMACY

Established in 1973 by the Government of Karnataka, Bangalore

Excluded : Natural Sciences and Engineering

Page No. 2/2000

Date: 20/11/16

Recd. Answer of questions from Part - A, answer any five questions from Part-B

PART - A (1 x 2 = 2 Marks)

1. Describe the use of antibiotics, penicillin with examples.
2. Draw the diagram of steam distillation.
3. What is a cold chisel?
4. How is a cold chisel used?
5. Name the parts of a cold chisel.
6. What is a cold chisel?
7. Describe the use of a cold chisel.
8. What is a cold chisel?
9. Describe the use of a cold chisel.
10. Describe the use of a cold chisel.

PART - B (5 x 6 = 30 Marks)

- (a) Describe the use of a cold chisel. (6 marks)
- (b) What is a cold chisel? (6 marks)
- (c) Describe the use of a cold chisel. (6 marks)
- (d) Describe the use of a cold chisel. (6 marks)
- (e) Describe the use of a cold chisel. (6 marks)
- (f) Describe the use of a cold chisel. (6 marks)
- (g) Describe the use of a cold chisel. (6 marks)
- (h) Describe the use of a cold chisel. (6 marks)
- (i) Describe the use of a cold chisel. (6 marks)
- (j) Describe the use of a cold chisel. (6 marks)
- (k) Describe the use of a cold chisel. (6 marks)
- (l) Describe the use of a cold chisel. (6 marks)
- (m) Describe the use of a cold chisel. (6 marks)
- (n) Describe the use of a cold chisel. (6 marks)
- (o) Describe the use of a cold chisel. (6 marks)
- (p) Describe the use of a cold chisel. (6 marks)
- (q) Describe the use of a cold chisel. (6 marks)
- (r) Describe the use of a cold chisel. (6 marks)
- (s) Describe the use of a cold chisel. (6 marks)
- (t) Describe the use of a cold chisel. (6 marks)
- (u) Describe the use of a cold chisel. (6 marks)
- (v) Describe the use of a cold chisel. (6 marks)
- (w) Describe the use of a cold chisel. (6 marks)
- (x) Describe the use of a cold chisel. (6 marks)
- (y) Describe the use of a cold chisel. (6 marks)
- (z) Describe the use of a cold chisel. (6 marks)



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SOCIETY OF PHARMACY
 Health & Pharmacy Education & Research Society

Applied Pharmacy Semester-IV

Page 2 of 2

Page 00000000

Answer all questions from Part-A, answer any five questions from Part-B.

PART - A (1 x 2 = 20 Marks)

1. What is a pharmaceutical? Give the definition of pharmaceutical.
2. What is a pharmaceutical? Give the definition of pharmaceutical.
3. What are the main components of a pharmaceutical?
4. Give the definition of pharmaceutical.
5. Give the definition of pharmaceutical.
6. Give the definition of pharmaceutical.
7. Give the definition of pharmaceutical.
8. Give the definition of pharmaceutical.
9. Give the definition of pharmaceutical.
10. Give the definition of pharmaceutical.

PART - B (5 x 4 = 20 Marks)

1. Give the definition of pharmaceutical. What are the main components of a pharmaceutical?
2. Give the definition of pharmaceutical. What are the main components of a pharmaceutical?
3. Give the definition of pharmaceutical. What are the main components of a pharmaceutical?
4. Give the definition of pharmaceutical. What are the main components of a pharmaceutical?
5. Give the definition of pharmaceutical. What are the main components of a pharmaceutical?
6. Give the definition of pharmaceutical. What are the main components of a pharmaceutical?
7. Give the definition of pharmaceutical. What are the main components of a pharmaceutical?
8. Give the definition of pharmaceutical. What are the main components of a pharmaceutical?
9. Give the definition of pharmaceutical. What are the main components of a pharmaceutical?
10. Give the definition of pharmaceutical. What are the main components of a pharmaceutical?



UNIVERSITY OF CAMBRIDGE

Code No. 711

Math 2 (p-12) I – Test paper (1) (continued) (10)
 subject: advanced mathematics

Time: 2 hours

Maximum: 70

Note: answer the question in Part 1 & 4 in Part 2 (choose how you like)

Part 1 – 40 Marks (10 Rating)

1. (a) $\begin{bmatrix} 2 & 1 \\ 1 & 3 \\ 1 & 4 \end{bmatrix}$ and $\begin{bmatrix} 1 & 2 & 1 \\ 4 & 0 & 1 \end{bmatrix}$ (each 5 = 10)

2. Find the matrix inverse of $\begin{bmatrix} 1 & 2 & 3 \\ 2 & 3 & 4 \end{bmatrix}$

3. Find $A = \frac{1}{2}$ (each 5 = 10)

4. Find $\frac{d}{dx} \left(\frac{1}{x} \right) = \frac{1}{x^2}$

5. Find $\log x$

6. Find the value of $\log \left(\frac{1}{x} \right) = \frac{1}{x} \left(\frac{1}{x} \right) = \frac{1}{x^2}$

7. Find the value of $\log \left(\frac{1}{x} \right) = \frac{1}{x} \left(\frac{1}{x} \right) = \frac{1}{x^2}$

8. Find the value of $\log \left(\frac{1}{x} \right) = \frac{1}{x} \left(\frac{1}{x} \right) = \frac{1}{x^2}$

9. Find $\frac{d}{dx} \left(\frac{1}{x} \right) = \frac{1}{x^2}$

10. Find $\frac{d}{dx} \left(\frac{1}{x} \right) = \frac{1}{x^2}$

Part 2 – 30 Marks (10 Rating)

11. (a) Find $\frac{d}{dx} \left(\frac{1}{x} \right) = \frac{1}{x^2}$

(b) Find $\frac{d}{dx} \left(\frac{1}{x} \right) = \frac{1}{x^2}$

(c) Find $\frac{d}{dx} \left(\frac{1}{x} \right) = \frac{1}{x^2}$

(d) Find $\frac{d}{dx} \left(\frac{1}{x} \right) = \frac{1}{x^2}$



11. a) Find the equation of the circle passing through (0, 3) and (4, 0) and having center on the x-axis.

b) Find the domain and range of $f(x) = \tan^{-1}(2x + 1) + \cos^{-1}(x)$.

12. a) Find $\lim_{x \rightarrow 0} \frac{\log \tan^{-1} x}{x^2 + 1}$

b) Using Taylor's theorem show that $\sum_{n=1}^{\infty} \left(\frac{1}{n^2} - \frac{1}{(n+1)^2} \right) = \frac{1}{2}$ using the theorem

$$a = \lim_{x \rightarrow 0} \left(\frac{f(x) - f(a)}{x - a} \right)$$

13. a) Find $\lim_{x \rightarrow 0} \frac{2x \log x}{(\cos^2 x - \sin^2 x)}$

b) Find $\lim_{x \rightarrow 0} \frac{1}{x} \left(\frac{1}{1 + \sin x} - \frac{1}{1 + \cos x} \right)$

14. a) Find $\lim_{x \rightarrow 0} \frac{11}{x^2} = \frac{11}{11x^2}$

b) Show $f(x) = \cos^2(x) \rightarrow \cos^2(0) = 1^2 = 1$

15. a) Find the Laplace transform of $x^2 \sin(x)$ using (b)

(c) Find the Laplace transform of $x \cos(x)$

16. a) State and prove $\sum_{n=1}^{\infty} \frac{1}{n^2} = \frac{\pi^2}{6}$

b) If $f(x) = \tan^{-1} x$ then prove that $\frac{d^2 f}{dx^2} = -\frac{2x}{1+x^2}$



FACULTY OF PHARMACY
UNIVERSITY OF HAIL - JEDDAH BRANCH

Applied Biology

Page 1 of 2

Date: 2021/11/10

Answer all questions from Part A, answer any five questions from Part B.

PART - A (1 x 2 = 2 Marks)

1. Algae
2. Agar
3. Agarose
4. Agarose agarose agarose agarose agarose
5. Agarose agarose agarose agarose agarose
6. Agarose
7. Agarose
8. Agarose
9. Agarose
10. Agarose

PART - B (5 x 4 = 20 Marks)

1. (a) Draw a diagram of cell wall structure in plant.
(b) Explain the structure of plant cell wall. 3-4
2. (a) Draw a diagram of plant cell wall structure.
(b) Explain the structure of plant cell wall. 3-4
3. (a) Draw a diagram of plant cell wall structure.
(b) Explain the structure of plant cell wall. 3-4
4. (a) Draw a diagram of plant cell wall structure.
(b) Explain the structure of plant cell wall. 3-4
5. (a) Draw a diagram of plant cell wall structure.
(b) Explain the structure of plant cell wall. 3-4
6. (a) Draw a diagram of plant cell wall structure.
(b) Explain the structure of plant cell wall. 3-4
7. (a) Draw a diagram of plant cell wall structure.
(b) Explain the structure of plant cell wall. 3-4
8. (a) Draw a diagram of plant cell wall structure.
(b) Explain the structure of plant cell wall. 3-4
9. (a) Draw a diagram of plant cell wall structure.
(b) Explain the structure of plant cell wall. 3-4
10. (a) Draw a diagram of plant cell wall structure.
(b) Explain the structure of plant cell wall. 3-4



Code No. 224

FACULTY OF PHARMACY
UNIVERSITY OF JORDAN - AMMAN

Applied Pharmaceutical Sciences I

Page 2 of 3

Date: 2024/10/10

Answer all questions for Part A, answer any five questions for Part B.

PART - A (1 x 2 = 2 Marks)

1. Write the production of lipid products, e.g.,
2. Define buffer, give example, standards with numbers?
3. Define emulsion and classify them?
4. What is a buffer capacity?
5. What is a emulsion and classify them?
6. Write the preparation, each and all of the emulsion?
7. Define emulsion and classify them?
8. Define the preparation of lipid emulsion?
9. Define the preparation and use of each of the emulsion?

PART - B (5 x 4 = 20 Marks)

1. Explain the significance of the following concepts and calculate the pH of a solution of 0.1 M of a weak acid and its conjugate base. (2)
2. Explain the significance of the following concepts and calculate the pH of a solution of 0.1 M of a weak acid and its conjugate base. (2)
3. Explain the significance of the following concepts and calculate the pH of a solution of 0.1 M of a weak acid and its conjugate base. (2)
4. Explain the significance of the following concepts and calculate the pH of a solution of 0.1 M of a weak acid and its conjugate base. (2)
5. Explain the significance of the following concepts and calculate the pH of a solution of 0.1 M of a weak acid and its conjugate base. (2)
6. Explain the significance of the following concepts and calculate the pH of a solution of 0.1 M of a weak acid and its conjugate base. (2)
7. Explain the significance of the following concepts and calculate the pH of a solution of 0.1 M of a weak acid and its conjugate base. (2)
8. Explain the significance of the following concepts and calculate the pH of a solution of 0.1 M of a weak acid and its conjugate base. (2)
9. Explain the significance of the following concepts and calculate the pH of a solution of 0.1 M of a weak acid and its conjugate base. (2)
10. Explain the significance of the following concepts and calculate the pH of a solution of 0.1 M of a weak acid and its conjugate base. (2)
11. Explain the significance of the following concepts and calculate the pH of a solution of 0.1 M of a weak acid and its conjugate base. (2)
12. Explain the significance of the following concepts and calculate the pH of a solution of 0.1 M of a weak acid and its conjugate base. (2)
13. Explain the significance of the following concepts and calculate the pH of a solution of 0.1 M of a weak acid and its conjugate base. (2)
14. Explain the significance of the following concepts and calculate the pH of a solution of 0.1 M of a weak acid and its conjugate base. (2)
15. Explain the significance of the following concepts and calculate the pH of a solution of 0.1 M of a weak acid and its conjugate base. (2)
16. Explain the significance of the following concepts and calculate the pH of a solution of 0.1 M of a weak acid and its conjugate base. (2)
17. Explain the significance of the following concepts and calculate the pH of a solution of 0.1 M of a weak acid and its conjugate base. (2)
18. Explain the significance of the following concepts and calculate the pH of a solution of 0.1 M of a weak acid and its conjugate base. (2)
19. Explain the significance of the following concepts and calculate the pH of a solution of 0.1 M of a weak acid and its conjugate base. (2)
20. Explain the significance of the following concepts and calculate the pH of a solution of 0.1 M of a weak acid and its conjugate base. (2)



Code No. 731

SOCIETY OF PHARMACY
HIGHER SECONDARY EDUCATION BOARD, KARNATAKA

Subject: Pharmaceutical Organic Chemistry

Time: 2 Hours

Max. Marks: 60

Read Answer of questions from Part - A, answer any five questions from Part-B.

PART - A (1 x 2 = 20 Marks)

1. Define enantiomers with examples.
2. Write the structural formula for the following:
(i) 2-chloro-4-methyl hexane
(ii) 2-bromophenol
3. Define Lewis acid & base.
4. Write all the substituents of benzene ring & explain it.
5. Illustrate with a reaction (any three).
6. Write the structural formula of benzene ring & explain it.
7. Write about Grignard Reaction.
8. Illustrate with a reaction (any two) the following:
(i) Electrophilic substitution
(ii) Nucleophilic substitution

PART - B (5 x 10 = 50 Marks)

- (i) Define the term substitution reaction. Illustrate the mechanism of the reaction of ethane.
- (ii) Explain a reaction of C_6H_6 and $\text{C}_6\text{H}_5\text{Br}$.
- (iii) Explain the following:
(a) Electrophilic substitution
(b) Free radical reaction
- (iv) Explain in detail a reaction of benzene ring with five examples.
- (v) Explain the mechanism and nomenclature of $\text{C}_6\text{H}_5\text{Br}$ reaction.
- (vi) Write the reaction and mechanism of
(a) Cumene reaction
(b) Gattermann reaction
- (vii) Write the suitable reagents and conditions for the following:
(a) Alkylation
(b) Acylation
- (viii) Explain the following:
(a) Kinetics of reaction
(b) Thermodynamics



Code No. 724

SOCIETY OF PHARMACY
INSTITUTE OF PHARMACY & BIOTECHNOLOGY, KANPUR

Subject: Pharmaceutics

Time: 2 Hours

Date: 20/11/20

Write Answer of questions from Part - A, answering five questions from Part-B.

PART - A (1 x 2 = 10 Marks)

1. Define solution and give two examples.
2. Differentiate emulsion and suspension.
3. Write a note on technology of production.
4. What will be the effect of a small amount of water on the stability of a drug in solution?
5. Write a note on pH in pharmaceuticals.
6. Write the importance of buffer in pharmaceutical preparations.
7. Write a note on buffers.
8. What is the principle involved in the separation of components in a mixture?
9. Write a note on buffers.
10. Write a note on buffers.

or

Part B - 5 q.
Each q. 20 m.
Total 100 m.

PART - B (5 x 20 = 100 Marks)

1. Define emulsion and give two examples.
2. Write a note on stability of a suspension of a drug in a liquid.
3. Write a note on buffers.
4. Write a note on buffers.
5. Write a note on buffers.
6. Write a note on buffers.
7. Write a note on buffers.
8. Write a note on buffers.
9. Write a note on buffers.
10. Write a note on buffers.



Code No. 400

SOCIETY OF PHARMACY
FIRST YEAR BSC (H) PHARMACY EXAMINATION, JULY 2011

Subject : Natural Healing and Phytotherapy

Time : 2 Hours

Date : 20/11/11

Read through all questions from Part - I and answer any five questions from Part II.

PART - I (1 x 2 = 20 Marks)

1. What is yin and yang, why?
2. What are the functions of spleen?
3. Define yin and yang in Lungs.
4. What is yin and yang in Liver?
5. Give the composition of blood and lymph.
6. Define the term 'yin' and 'yang' in the context of the body.
7. Give the functions of spleen.
8. Define the term 'yin' and 'yang' in the context of the body.
9. Define the term 'yin' and 'yang' in the context of the body.
10. Define the term 'yin' and 'yang' in the context of the body.

PART - II (5 x 6 = 30 Marks)

- (i) (a) Describe the structure and function of the spleen.
(b) Define the term 'yin' and 'yang' in the context of the body.
- (ii) (a) Describe the structure and function of the spleen.
(b) Define the term 'yin' and 'yang' in the context of the body.
- (iii) (a) Describe the structure and function of the spleen.
(b) Define the term 'yin' and 'yang' in the context of the body.
- (iv) (a) Describe the structure and function of the spleen.
(b) Define the term 'yin' and 'yang' in the context of the body.
- (v) (a) Describe the structure and function of the spleen.
(b) Define the term 'yin' and 'yang' in the context of the body.
- (vi) (a) Describe the structure and function of the spleen.
(b) Define the term 'yin' and 'yang' in the context of the body.
- (vii) (a) Describe the structure and function of the spleen.
(b) Define the term 'yin' and 'yang' in the context of the body.
- (viii) (a) Describe the structure and function of the spleen.
(b) Define the term 'yin' and 'yang' in the context of the body.
- (ix) (a) Describe the structure and function of the spleen.
(b) Define the term 'yin' and 'yang' in the context of the body.
- (x) (a) Describe the structure and function of the spleen.
(b) Define the term 'yin' and 'yang' in the context of the body.



UNIVERSITY OF BIRMINGHAM
SCHOOL OF MATHEMATICS

Edmund Byrne

10/10/2020

Page 1 of 1

Read these all questions from Part 1 and answer any five questions from Part 2.

PART 1 (1 x 2 = 2 Marks)

1. Let $A = \begin{pmatrix} 1 & 2 \\ 3 & 4 \end{pmatrix}$ and $B = \begin{pmatrix} 4 & 3 \\ 2 & 1 \end{pmatrix}$. Find AB .
2. Find the slope of the line joining points $(1, 2)$ and $(3, 4)$.
3. Find the value of $\frac{d}{dx} \sin x$.
4. Find the value of $\frac{d}{dx} \ln x$.
5. Find $\frac{d}{dx} x^2$.
6. Find the slope of the line $y = 2x + 3$.

$$\frac{d}{dx} \sin x = \cos x$$

7. Find the value of $\frac{d}{dx} \ln x$.
8. Find the value of $\frac{d}{dx} \ln x$.
9. Find $\frac{d}{dx} \ln x$.
10. Find the value of $\frac{d}{dx} \ln x$.

PART 2 (5 x 2 = 10 Marks)

$$\text{The matrix } A = \begin{pmatrix} 1 & 2 & 3 \\ 4 & 5 & 6 \\ 7 & 8 & 9 \end{pmatrix} \text{ is given. Find } A^{-1}.$$

$$\text{Find the value of } \frac{d}{dx} \ln x.$$

11. Find the equation of the line passing through $(1, 2)$ and $(3, 4)$.
12. Find the value of $\frac{d}{dx} \ln x$.



17. (a) Let $\mathbf{A} = \begin{pmatrix} 1 & 2 \\ 3 & 4 \end{pmatrix}$ and $\mathbf{B} = \begin{pmatrix} 4 & 3 \\ 2 & 1 \end{pmatrix}$.

(i) Find $\mathbf{A} + \mathbf{B}$ and $\mathbf{A} - \mathbf{B}$.

$$\mathbf{A} + \mathbf{B} = \begin{pmatrix} 1+4 & 2+3 \\ 3+2 & 4+1 \end{pmatrix} = \begin{pmatrix} 5 & 5 \\ 5 & 5 \end{pmatrix}$$

(ii) Find $\mathbf{A} \mathbf{B}$ and $\mathbf{B} \mathbf{A}$.

$$\mathbf{A} \mathbf{B} = \begin{pmatrix} 1 \cdot 4 + 2 \cdot 2 & 1 \cdot 3 + 2 \cdot 1 \\ 3 \cdot 4 + 4 \cdot 2 & 3 \cdot 3 + 4 \cdot 1 \end{pmatrix} = \begin{pmatrix} 8 & 5 \\ 20 & 17 \end{pmatrix}$$

(iii) Find $\mathbf{A}^{-1}$ and $\mathbf{B}^{-1}$.

$$\mathbf{A}^{-1} = \frac{1}{\det(\mathbf{A})} \begin{pmatrix} 4 & -2 \\ -3 & 1 \end{pmatrix} = \frac{1}{-2} \begin{pmatrix} 4 & -2 \\ -3 & 1 \end{pmatrix} = \begin{pmatrix} -2 & 1 \\ 1.5 & -0.5 \end{pmatrix}$$

(iv) Find the eigenvalues and eigenvectors of $\mathbf{A}$.

(i) Find the eigenvalues of $\mathbf{A}$.

(ii) Find the eigenvectors of $\mathbf{A}$.

$$\det(\mathbf{A} - \lambda \mathbf{I}) = \begin{vmatrix} 1-\lambda & 2 \\ 3 & 4-\lambda \end{vmatrix} = (1-\lambda)(4-\lambda) - 6 = \lambda^2 - 5\lambda - 2 = 0$$

$$\lambda = \frac{5 \pm \sqrt{33}}{2}$$



Code No. 425

SOCIETY OF PHARMACY
First and Long Short Hand Examination, July 2011

Subject: Biology

Time: 2 Hours

Max. Marks: 60

Read these all questions from Part - I and answer any five questions from Part-II.

PART - I (1 x 2 = 20 Marks)

1. What is a cell?
2. Explain Prokaryotes.
3. Name and function of A.
3. Explain Mitosis.
2. What is a flagell?
2. What is a cell wall?
1. Explain a good model of a cell.
1. Explain a cell wall.
1. What is a chromosome?
1. Explain a chromosome.

PART - II (5 x 4 = 20 Marks)

1. (a) Explain the structure and function of a cell.
 (b) Explain the structure and function of a cell.
2. (a) Name the structure and function of a cell.
 (b) Explain the structure and function of a cell.
3. (a) Explain the structure and function of a cell.
 (b) Explain the structure and function of a cell.
4. (a) Name the structure and function of a cell.
 (b) Explain the structure and function of a cell.
5. (a) Explain the structure and function of a cell.
 (b) Explain the structure and function of a cell.
6. (a) Name the structure and function of a cell.
 (b) Explain the structure and function of a cell.
7. (a) Explain the structure and function of a cell.
 (b) Explain the structure and function of a cell.
8. (a) Name the structure and function of a cell.
 (b) Explain the structure and function of a cell.
9. (a) Explain the structure and function of a cell.
 (b) Explain the structure and function of a cell.
10. (a) Name the structure and function of a cell.
 (b) Explain the structure and function of a cell.



PHYSICS OF PHARMACY

Printed by the University of Cambridge, July 2011

School of Pharmaceutical and Clinical Sciences

June 2011

100% written

Note: answer all questions from Part 1 and choose any three questions from Part 2

PART 1 - 60 MINUTE

1. Calculate the amount of 0.01 M solution containing 1 g of sodium hydroxide
2. Write the name of the compound
3. Write the name of the compound, and the name of the compound
4. Write the name of the compound, and the name of the compound
5. Write the name of the compound, and the name of the compound
6. Write the name of the compound, and the name of the compound
7. Write the name of the compound, and the name of the compound
8. Write the name of the compound, and the name of the compound
9. Write the name of the compound, and the name of the compound
10. Write the name of the compound, and the name of the compound

PART 2 - 60 MINUTE

11. Explain in detail how the following compounds are prepared:
 - (a) Sodium hydroxide
 - (b) Sodium carbonate
12. (a) Write the name of the compound, and the name of the compound
 - (i) Write the name of the compound, and the name of the compound
13. (a) Write the name of the compound, and the name of the compound
 - (i) Write the name of the compound, and the name of the compound
14. Write the name of the compound, and the name of the compound
15. Explain in detail how the following compounds are prepared:
 - (a) Sodium hydroxide
 - (b) Sodium carbonate
16. (a) Write the name of the compound, and the name of the compound
 - (i) Write the name of the compound, and the name of the compound
17. (a) Write the name of the compound, and the name of the compound
 - (i) Write the name of the compound, and the name of the compound
18. (a) Write the name of the compound, and the name of the compound
 - (i) Write the name of the compound, and the name of the compound



SOCIETY OF PHARMACY

START 2.00 to 10.00 (start time) examination, July 2011

Signed: Pharmacology

Page 1 of 2 (Page)

Page 1 of 2 (Page)

Start time of 2.00 to 10.00 (start time) examination, July 2011

START - 4 (1 x 2 = 2 Marks)

1. Calculate the amount of 10% w/v solution of 10% w/v solution.
2. Calculate the amount of 10% w/v solution of 10% w/v solution.
3. Calculate the amount of 10% w/v solution of 10% w/v solution.
4. Calculate the amount of 10% w/v solution of 10% w/v solution.
5. Calculate the amount of 10% w/v solution of 10% w/v solution.
6. Calculate the amount of 10% w/v solution of 10% w/v solution.
7. Calculate the amount of 10% w/v solution of 10% w/v solution.
8. Calculate the amount of 10% w/v solution of 10% w/v solution.
9. Calculate the amount of 10% w/v solution of 10% w/v solution.
10. Calculate the amount of 10% w/v solution of 10% w/v solution.

START - 5 (1 x 1 = 1 Mark)

1. Calculate the amount of 10% w/v solution of 10% w/v solution.
2. Calculate the amount of 10% w/v solution of 10% w/v solution.
3. Calculate the amount of 10% w/v solution of 10% w/v solution.
4. Calculate the amount of 10% w/v solution of 10% w/v solution.
5. Calculate the amount of 10% w/v solution of 10% w/v solution.
6. Calculate the amount of 10% w/v solution of 10% w/v solution.
7. Calculate the amount of 10% w/v solution of 10% w/v solution.
8. Calculate the amount of 10% w/v solution of 10% w/v solution.
9. Calculate the amount of 10% w/v solution of 10% w/v solution.
10. Calculate the amount of 10% w/v solution of 10% w/v solution.



FACULTY OF PLASMA TV

Journal of Management Education 34(10):1139-1154

Land, Myrna Suterbury

1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 26

Read the rest of this issue from *Page 2* and go to www.elsevier.com/locate/bsc

1000-4000 2000 4000 6000 8000 10000

1. Explain briefly the role of hormones in water and salt balance in the body.
2. What are appropriate physiological functions?
3. What are the primary physiological functions of the same?
4. What are the physiological functions of the same?
5. What are the physiological functions of the same?
6. What are the physiological functions of the same?
7. What are the physiological functions of the same?
8. What are the physiological functions of the same?
9. What are the physiological functions of the same?
10. What are the physiological functions of the same?

— 250 —

- 11. Explain in detail the importance of each of the following:
 - (i) Water's D.H.O Under the concept of a hydroxyl network in various types of soil applications.
 - (ii) Explain the importance of soil texture in soil water.
 - (a) Define the biological significance of ATP
 - (iii) List the various factors of soil texture in soil water. Explain the role of soil texture, pH, and water content in soil.
 - (a) Explain the concept of soil texture in soil water.
 - (iv) Explain the role of soil texture in soil water.
 - (v) Explain the role of soil texture in soil water.
 - (vi) Explain the role of soil texture in soil water.
 - (vii) Explain the role of soil texture in soil water.
 - (a) Define the concept of soil texture in soil water.
 - (viii) Explain the role of soil texture in soil water.



10. Explain the mechanism of the following processes with examples. (5)
11. Write the processes under the each condition. (4)
- a. Depress (1)
 - b. Uprift (1)
 - c. Tensile (2)
12. Explain the erosion and sedimentation of (4)
- a. Coastal region (2)
 - b. River channel (2)
13. Discuss the factors of sedimentation in a river channel. (5)
14. Write the factors (4)
- a. Sediment transport (1)
 - b. Sedimentation (1)
 - c. Erosion (1)
 - d. Deposition (1)



UNIVERSITY OF BIRMINGHAM

1234 567 890

Faculty of Science - School of Chemistry
 School of Chemistry

1234 567 890

1234 567 890

Afternoon session - 1.30pm - 5.00pm

PART 1 (40 Marks)

1. The following are the names of some of the components of a cell. Write down the full name of each component and its function.
2. The following are the names of some of the components of a cell. Write down the full name of each component and its function.
3. The following are the names of some of the components of a cell. Write down the full name of each component and its function.
4. The following are the names of some of the components of a cell. Write down the full name of each component and its function.
5. The following are the names of some of the components of a cell. Write down the full name of each component and its function.
6. The following are the names of some of the components of a cell. Write down the full name of each component and its function.
7. The following are the names of some of the components of a cell. Write down the full name of each component and its function.
8. The following are the names of some of the components of a cell. Write down the full name of each component and its function.
9. The following are the names of some of the components of a cell. Write down the full name of each component and its function.
10. The following are the names of some of the components of a cell. Write down the full name of each component and its function.

PART 2 (40 Marks)

1. The following are the names of some of the components of a cell. Write down the full name of each component and its function.
2. The following are the names of some of the components of a cell. Write down the full name of each component and its function.
3. The following are the names of some of the components of a cell. Write down the full name of each component and its function.
4. The following are the names of some of the components of a cell. Write down the full name of each component and its function.
5. The following are the names of some of the components of a cell. Write down the full name of each component and its function.
6. The following are the names of some of the components of a cell. Write down the full name of each component and its function.
7. The following are the names of some of the components of a cell. Write down the full name of each component and its function.
8. The following are the names of some of the components of a cell. Write down the full name of each component and its function.
9. The following are the names of some of the components of a cell. Write down the full name of each component and its function.
10. The following are the names of some of the components of a cell. Write down the full name of each component and its function.



FACULTY OF PHARMACY

Form 411 (Part A) part A setting comments, equal 200
equal pharmaceutical sciences theory

Page, 1 from

Max Marks 70

Here show all questions from Part - 2 and answer of five questions from Part-2

Part - 1 5/10.2 = 10 Marks

1. Write the ideal properties of antacid.
2. What is trisulphur? How the trisulphur is produced in pharmaceutical preparation?
3. Tissue or Cells: What are the different types of cells?
4. Give the normality for 250 ml solution containing 10 gm of Sodium phosphate.
5. What is the principle involved in the titrimetric method?
6. What is the Law of Mass Action?
7. Write the pharmacokinetics of Dexamethasone in the short.
8. Give the effect of presence of NaCl in solution.
9. Give the preparation method of salt of halogen peroxide.
10. What is pharmaceutical salt? Give an example with structure.

Part - 2 5/10.2 = 10 Marks

11. Explain in detail about the interaction between the following chemical and biological systems:
 - (a) Living cell - Living tissue
 - (b) Dead cell - Living tissue
12. (a) Explain the mechanism of action of Dexamethasone, in the short.
 - (i) Write a note on the mode of action.
13. (a) Give the general procedure for the synthesis of salt.
 - (i) Write the preparation procedure of copper salt of benzothiazole.
14. (a) Explain the mechanism of action of amphotericin B with example.
 - (i) Give the use of sodium bicarbonate for Dental uses.
15. (a) Give the structure of phthalic acid in pharmaceutical therapy.
 - (i) What is phthalic anhydride? Write the reaction showing the synthesis of phthalic anhydride from phthalic acid.
16. Write a note on the use of Dexamethasone in the short.
17. (a) Write the mechanism of action of Dexamethasone.
 - (i) Write the preparation, properties and uses of sodium salt.
18. Write the mechanism of action of Dexamethasone in the short.
 - (i) Write the preparation, properties and uses of sodium salt.



FACULTY OF PHARMACY

Course: B.Ph. (Hons) - Part II: Medicinal Chemistry: Paper: MC
Subject: Medicinal Chemistry: Carbonyl

Time: 2 hours

Max. Marks: 60

Answer all questions stated Part-I. (Any five questions from Part-II)

Part-I: 4 (10x) = 40 Marks

1. Write the IUPAC name of the following:

CH₃



2. Give the step-by-step mechanism of the following reaction with reagents and conditions.

3. Give the reagents for the following:

a) Methyl formate to propanal

b) 2,4-dinitrophenol to 2,4-dinitrobenzoic acid

4. Complete the following reaction and give the name of the product.

5. Briefly explain the following:

- a) Why is the following reaction not possible?

CH₃COCH₃ + H₂O → CH₃COOH + H₂

6. Give the reagents for the following:



7. Predict the product:



8. Explain the following reaction:

Part-II: 2 (10x) = 20 Marks

9. Explain the following reaction with reagents and conditions:

10. Explain the following:

a) Aldol condensation

b) Cannizzaro reaction



10. Select the correct answer. Tick the appropriate circle(s).

10

1. Which is not a type of mutation?

- a. Point mutation
b. Chromosomal mutation

2. Explain the function of the following: a. DNA polymerase

10

3. Which is not a type of mutation?

10

- a. Point mutation
b. Chromosomal mutation

4. Which is not a type of mutation?

- a. Point mutation
b. Chromosomal mutation

5. Explain the function of the following: a. DNA polymerase

10

- a. Point mutation
b. Chromosomal mutation

6. Which is not a type of mutation?

- a. Point mutation
b. Chromosomal mutation

7. a. Explain the function of the following: a. DNA polymerase

- b. Which is not a type of mutation?

8. a. Explain the function of the following: a. DNA polymerase

- b. Which is not a type of mutation?



PHYSICS (9-PSY04)

Paper 2 (60 – 120) – 1st Part (60) Examination, August 2016

Subject: National Measurement

Time: 2 hours

Maximum Mark: 75

Take answers on questions from Part 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000

Part 1 – 10 marks

- What is a point of view? Give an example of a point of view.
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- What is a point of view? Give an example of a point of view.

Part 2 – 10 marks

- What is a point of view? Give an example of a point of view.
- What is a point of view? Give an example of a point of view.
- What is a point of view? Give an example of a point of view.
- What is a point of view? Give an example of a point of view.
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UNIVERSITY OF LAGOS

Copy No. 117

Department of Mathematics - THE UNIVERSITY OF LAGOS

Subject: Matrix Calculus

Time: 2 hours

Examination 11

Write answers on separate sheets and label each sheet with the question number and your name.

NOTE: A calculator is allowed.

$$f(x) = \begin{pmatrix} x^2 & x \\ x & x^2 \end{pmatrix} \quad \text{and} \quad g(x) = \begin{pmatrix} x & x \\ x & x \end{pmatrix}$$

$$f(x) = \begin{pmatrix} x^2 & x \\ x & x^2 \end{pmatrix}$$

1. Find the derivative of the function $f(x)$ and $g(x)$.

2. Find the matrix A such that $f(A) = g(A)$.

3. Find the matrix A such that $f(A) = g(A)$.

$$f(x) = \begin{pmatrix} x^2 & x \\ x & x^2 \end{pmatrix} \quad \text{and} \quad g(x) = \begin{pmatrix} x & x \\ x & x \end{pmatrix}$$

$$f(x) = \begin{pmatrix} x^2 & x \\ x & x^2 \end{pmatrix}$$

4. Find the matrix A such that $f(A) = g(A)$.

5. Find the matrix A such that $f(A) = g(A)$.

$$f(x) = \begin{pmatrix} x^2 & x \\ x & x^2 \end{pmatrix} \quad \text{and} \quad g(x) = \begin{pmatrix} x & x \\ x & x \end{pmatrix}$$

NOTE: A calculator is allowed.

$$f(x) = \begin{pmatrix} x^2 & x \\ x & x^2 \end{pmatrix} \quad \text{and} \quad g(x) = \begin{pmatrix} x & x \\ x & x \end{pmatrix}$$

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$$f(x) = \begin{pmatrix} x^2 & x \\ x & x^2 \end{pmatrix} \quad \text{and} \quad g(x) = \begin{pmatrix} x & x \\ x & x \end{pmatrix}$$

6. Find the matrix A such that $f(A) = g(A)$.



11. a) Find the equation of the straight line through $P(1, -4)$ and $Q(3, 2)$.

b) Hence, find the gradient of the line l .

11. a) Find the gradient of the line l .

$$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{2 - (-4)}{3 - 1} = \frac{6}{2} = 3$$

b) Hence, find the equation of the line l .

$$y - y_1 = m(x - x_1) \Rightarrow y - (-4) = 3(x - 1) \Rightarrow y + 4 = 3x - 3 \Rightarrow y = 3x - 7$$

11. a) Find the gradient of the line l .

$$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{2 - (-4)}{3 - 1} = \frac{6}{2} = 3$$

b) Hence, find the equation of the line l .

$$y - y_1 = m(x - x_1) \Rightarrow y - (-4) = 3(x - 1) \Rightarrow y + 4 = 3x - 3 \Rightarrow y = 3x - 7$$

11. a) Find the gradient of the line l .

$$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{2 - (-4)}{3 - 1} = \frac{6}{2} = 3$$

b) Hence, find the equation of the line l .

$$y - y_1 = m(x - x_1) \Rightarrow y - (-4) = 3(x - 1) \Rightarrow y + 4 = 3x - 3 \Rightarrow y = 3x - 7$$

SNVP

11. a) Find the equation of the line l through $P(1, -4)$ and $Q(3, 2)$.

b) Hence, find the gradient of the line l .

11. a) Find the equation of the line l .

$$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{2 - (-4)}{3 - 1} = \frac{6}{2} = 3$$

b) Hence, find the equation of the line l .

$$y - y_1 = m(x - x_1) \Rightarrow y - (-4) = 3(x - 1) \Rightarrow y + 4 = 3x - 3 \Rightarrow y = 3x - 7$$



FACULTY OF ARCHITECTURE

Module / s: M A 1 - THE HISTORY OF CONTEMPORARY ARCHITECTURE

Subject: History

Title: 2 hours

Max marks: 75

Note: Answer all questions from Part - A, answer any five questions from Part - B.

PART - A (100% MARKS)

1. What is a plan? (10)
2. What is a section? (10)
3. What is a floor plan? (10)
4. What is a section? (10)
5. What is a plan? (10)
6. What is a section? (10)
7. What is a plan? (10)
8. What is a section? (10)
9. What is a plan? (10)
10. What is a section? (10)

PART - B (50% MARKS)

11. a) What is a plan? (10) b) What is a section? (10)
12. a) What is a plan? (10) b) What is a section? (10)
13. a) What is a plan? (10) b) What is a section? (10)
14. a) What is a plan? (10) b) What is a section? (10)
15. a) What is a plan? (10) b) What is a section? (10)
16. a) What is a plan? (10) b) What is a section? (10)
17. a) What is a plan? (10) b) What is a section? (10)
18. a) What is a plan? (10) b) What is a section? (10)
19. a) What is a plan? (10) b) What is a section? (10)
20. a) What is a plan? (10) b) What is a section? (10)