

INSTITUTE OF MANAGEMENT

B. Bachelor (Engineering) - Semester IV (2019-2020) - Session: June 2021
Subject: Basic Science (2020)

Time: 1 Hour

Max. Marks: 70

Write Answer to the questions. All questions carry equal marks.

1. a) Define the following terms of heat and temperature. b) Give two examples of heat and temperature. c) Give two examples of heat and temperature. 7
2. a) Define the following terms of heat and temperature. b) Give two examples of heat and temperature. c) Give two examples of heat and temperature. 7
3. a) Define the following terms of heat and temperature. b) Give two examples of heat and temperature. c) Give two examples of heat and temperature. 7
4. a) Define the following terms of heat and temperature. b) Give two examples of heat and temperature. c) Give two examples of heat and temperature. 7
5. a) Define the following terms of heat and temperature. b) Give two examples of heat and temperature. c) Give two examples of heat and temperature. 7
6. a) Define the following terms of heat and temperature. b) Give two examples of heat and temperature. c) Give two examples of heat and temperature. 7
7. a) Define the following terms of heat and temperature. b) Give two examples of heat and temperature. c) Give two examples of heat and temperature. 7
8. a) Define the following terms of heat and temperature. b) Give two examples of heat and temperature. c) Give two examples of heat and temperature. 7
9. a) Define the following terms of heat and temperature. b) Give two examples of heat and temperature. c) Give two examples of heat and temperature. 7
10. a) Define the following terms of heat and temperature. b) Give two examples of heat and temperature. c) Give two examples of heat and temperature. 7
11. a) Define the following terms of heat and temperature. b) Give two examples of heat and temperature. c) Give two examples of heat and temperature. 7
12. a) Define the following terms of heat and temperature. b) Give two examples of heat and temperature. c) Give two examples of heat and temperature. 7
13. a) Define the following terms of heat and temperature. b) Give two examples of heat and temperature. c) Give two examples of heat and temperature. 7
14. a) Define the following terms of heat and temperature. b) Give two examples of heat and temperature. c) Give two examples of heat and temperature. 7
15. a) Define the following terms of heat and temperature. b) Give two examples of heat and temperature. c) Give two examples of heat and temperature. 7
16. a) Define the following terms of heat and temperature. b) Give two examples of heat and temperature. c) Give two examples of heat and temperature. 7
17. a) Define the following terms of heat and temperature. b) Give two examples of heat and temperature. c) Give two examples of heat and temperature. 7
18. a) Define the following terms of heat and temperature. b) Give two examples of heat and temperature. c) Give two examples of heat and temperature. 7
19. a) Define the following terms of heat and temperature. b) Give two examples of heat and temperature. c) Give two examples of heat and temperature. 7
20. a) Define the following terms of heat and temperature. b) Give two examples of heat and temperature. c) Give two examples of heat and temperature. 7



(2024-25) (100 Marks)

FACULTY OF MEDICINE

10. Medicine (Prescribed) - I (Semester - III) & Nursing (Prescribed), June 2024
Subject: Respiratory System

Roll No. 1710000

Date: 10/06/24

It is given by Prof. Dr. Md. M. Qasim Khan, Chairman

- | | |
|--|-----------|
| 1. (a) Describe the four types of pneumonia (4 marks) | (4 Marks) |
| (b) What is the most common cause of pneumonia? | (1 Mark) |
| 2. (a) Describe the pathogenesis of pneumonia (4 marks) | (4 Marks) |
| (b) What is the most common cause of pneumonia? | (1 Mark) |
| 3. (a) Describe the pathogenesis of pneumonia (4 marks) | (4 Marks) |
| (b) What is the most common cause of pneumonia? | (1 Mark) |
| 4. (a) Describe the pathogenesis of pneumonia (4 marks) | (4 Marks) |
| (b) What is the most common cause of pneumonia? | (1 Mark) |
| 5. (a) Describe the pathogenesis of pneumonia (4 marks) | (4 Marks) |
| (b) What is the most common cause of pneumonia? | (1 Mark) |
| 6. (a) Describe the pathogenesis of pneumonia (4 marks) | (4 Marks) |
| (b) What is the most common cause of pneumonia? | (1 Mark) |
| 7. (a) Describe the pathogenesis of pneumonia (4 marks) | (4 Marks) |
| (b) What is the most common cause of pneumonia? | (1 Mark) |
| 8. (a) Describe the pathogenesis of pneumonia (4 marks) | (4 Marks) |
| (b) What is the most common cause of pneumonia? | (1 Mark) |
| 9. (a) Describe the pathogenesis of pneumonia (4 marks) | (4 Marks) |
| (b) What is the most common cause of pneumonia? | (1 Mark) |
| 10. (a) Describe the pathogenesis of pneumonia (4 marks) | (4 Marks) |
| (b) What is the most common cause of pneumonia? | (1 Mark) |

FACULTY OFF ASSESSOR

B. Pharmacy 1st Semester PCB Course at 2nd Shift & Duration of Assessment

2/14/2024

Subject: Medicines Pharmaceutical Technology Techniques

Form F-1 Sheet

Max. Marks: 75

Marked answers for questions. All questions carry equal marks.

1. a. Explain different methods of drug storage. b. and full proper preservation of Pharmaceutical formulation in the value 10 marks. 20
c. Explain the primary packaging of Pharmaceutical. 10
2. a. Explain the different types of drugs. b. and full proper preservation of drugs. 10
c. Explain the secondary packaging of Pharmaceutical. 10
3. a. Explain the primary packaging of drugs. b. and full proper preservation of drugs. 10
c. Explain the secondary packaging of drugs. 10
4. a. Explain the primary packaging of drugs. b. and full proper preservation of drugs. 10
c. Explain the secondary packaging of drugs. 10
5. a. Explain the primary packaging of drugs. b. and full proper preservation of drugs. 10
c. Explain the secondary packaging of drugs. 10
6. a. Explain the primary packaging of drugs. b. and full proper preservation of drugs. 10
c. Explain the secondary packaging of drugs. 10
7. a. Explain the primary packaging of drugs. b. and full proper preservation of drugs. 10
c. Explain the secondary packaging of drugs. 10
8. a. Explain the primary packaging of drugs. b. and full proper preservation of drugs. 10
c. Explain the secondary packaging of drugs. 10

FACULTY OF PHARMACY

B. Pharmacy (Pharmaceutical) - Semester IV (Pharm. & Biopharmaceutics)

June 2021

Subject: Biopharmaceutics (400)

Time: 3 Hours

Max. Marks: 75

Ques. Answer any five questions. All questions carry equal marks.

- Q.1) a) Explain pharmacokinetic study and its types and give its objectives. (10)
b) Define the term area under the curve and give its mathematical formula. (5)
- Q.2) a) Explain F/F₀ and its use in pharmacokinetic study. (10)
b) Define the term half-life and give its formula. (5)
- Q.3) a) Explain the term clearance and give its formula. (10)
b) Define the term volume of distribution and give its formula. (5)
- Q.4) a) Explain the term bioavailability and give its formula. (10)
b) Define the term first-pass effect and give its formula. (5)
- Q.5) a) Explain the term steady-state concentration and give its formula. (10)
b) Define the term elimination half-life and give its formula. (5)
- Q.6) a) Explain the term pharmacokinetic study and give its objectives. (10)
b) Define the term pharmacokinetic study and give its formula. (5)
- Q.7) a) Explain the term pharmacokinetic study and give its objectives. (10)
b) Define the term pharmacokinetic study and give its formula. (5)
- Q.8) a) Explain the term pharmacokinetic study and give its objectives. (10)
b) Define the term pharmacokinetic study and give its formula. (5)
- Q.9) a) Explain the term pharmacokinetic study and give its objectives. (10)
b) Define the term pharmacokinetic study and give its formula. (5)
- Q.10) a) Explain the term pharmacokinetic study and give its objectives. (10)
b) Define the term pharmacokinetic study and give its formula. (5)

FACULTY OF PHARMACY

B Pharmacy programme – Semester II (I, II, Part & Evening Examination)

June 2019

Subject: Drug Delivery Systems

Time: 2 Hours

Max. Marks: 75

Write Answer any five questions

(20) = (100%)

1. (a) Define drug delivery system. Discuss the various types of drug delivery systems. (10)
- (b) Discuss the pharmacological properties of the various drug delivery systems. (10)
2. (a) Discuss the various types of drug delivery systems. (10)
- (b) Discuss the various types of drug delivery systems. (10)
3. (a) Discuss the various types of drug delivery systems. (10)
- (b) Discuss the various types of drug delivery systems. (10)
4. (a) Discuss the various types of drug delivery systems. (10)
- (b) Discuss the various types of drug delivery systems. (10)
5. (a) Discuss the various types of drug delivery systems. (10)
- (b) Discuss the various types of drug delivery systems. (10)
6. (a) Discuss the various types of drug delivery systems. (10)
- (b) Discuss the various types of drug delivery systems. (10)
7. (a) Discuss the various types of drug delivery systems. (10)
- (b) Discuss the various types of drug delivery systems. (10)
8. (a) Discuss the various types of drug delivery systems. (10)
- (b) Discuss the various types of drug delivery systems. (10)
9. (a) Discuss the various types of drug delivery systems. (10)
- (b) Discuss the various types of drug delivery systems. (10)
10. (a) Discuss the various types of drug delivery systems. (10)
- (b) Discuss the various types of drug delivery systems. (10)



SEM 2023-24

TAFE NSW

6 Phosphate + 4 Ammonia + 2 Calcium + 10 Hydrogen + 10 Oxygen + 10 Nitrogen + 10 Carbon + 10 Sulfur + 10 Chlorine + 10 Fluorine + 10 Iodine + 10 Bromine + 10 Astatine + 10 Francium + 10 Radium + 10 Actinium + 10 Thorium + 10 Protactinium + 10 Uranium + 10 Neptunium + 10 Plutonium + 10 Americium + 10 Curium + 10 Bk + 10 Cf + 10 Es + 10 Fm + 10 Md + 10 No + 10 Lr

Small amount of material, complete response

Small amount

Small amount

Small amount of material, complete response

1. a) Explain the concept of a solution with suitable examples.
b) Draw and explain the structure of an AM in the context of a solution. (2+2) (4)
2. a) Explain the concept of a solution with suitable examples.
b) Draw and explain the structure of an AM in the context of a solution. (2+2) (4)
3. a) Explain the concept of a solution with suitable examples.
b) Draw and explain the structure of an AM in the context of a solution. (2+2) (4)
4. a) Explain the concept of a solution with suitable examples.
b) Draw and explain the structure of an AM in the context of a solution. (2+2) (4)
5. a) Explain the concept of a solution with suitable examples.
b) Draw and explain the structure of an AM in the context of a solution. (2+2) (4)
6. a) Explain the concept of a solution with suitable examples.
b) Draw and explain the structure of an AM in the context of a solution. (2+2) (4)
7. a) Explain the concept of a solution with suitable examples.
b) Draw and explain the structure of an AM in the context of a solution. (2+2) (4)
8. a) Explain the concept of a solution with suitable examples.
b) Draw and explain the structure of an AM in the context of a solution. (2+2) (4)



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however, still

Network Edge Delivery Model

Table 1. (Cont.)

04.000000

NOTE: 1. Allowing for the possibility of a significant difference between

1. a) What is a linear time-invariant system?
b) What is an LTI system's impulse response?
2. a) How do we compute the output of an LTI system?
b) What are the properties of LTI systems?
3. a) What are the advantages and disadvantages of the Fourier transform?
b) How do we compute the Fourier transform of a signal?
4. a) What is the Fourier transform of a signal?
b) What is the Fourier transform of a signal's derivative?
5. a) How do we compute the Fourier transform of a signal?
b) What is the Fourier transform of a signal's derivative?
6. a) How do we compute the Fourier transform of a signal?
b) What is the Fourier transform of a signal's derivative?
7. a) How do we compute the Fourier transform of a signal?
b) What is the Fourier transform of a signal's derivative?
8. a) How do we compute the Fourier transform of a signal?
b) What is the Fourier transform of a signal's derivative?
9. a) How do we compute the Fourier transform of a signal?
b) What is the Fourier transform of a signal's derivative?
10. a) How do we compute the Fourier transform of a signal?
b) What is the Fourier transform of a signal's derivative?



PHARMACY PHARMACEUTICS

B. Pharmacy (Pharmaceutics) Semester IV (C) (Coping Curriculum)
September 2022

Subject: Biopharmaceutics

Time: 3 hours

Max. Marks: 75

Write answers for five questions. 25 questions carry equal marks

1. (a) List the various factors that affect drug absorption and mention any three methods of their enhancement? 15
2. (a) Explain the CD guidelines for the release of a drug from a tablet.
(b) Write about various types of tablets. 15
3. (a) Explain storage stability management and evaluation (with examples)?
(b) Describe the factors affecting storage stability of API. 15
4. (a) Explain the factors for environmental stability studies of drugs? 15
5. (a) Explain FMOH
(b) Describe the importance of stability studies using F1 and F2 factors? 15
6. (a) Explain about the storage stability of pharmaceutical formulation? 15
(b) Explain the terms F1, F2, F3 and F4. 15
7. (a) Explain the process of stability study? 15
(b) Write about the stability management? 15
8. (a) Explain about ICH Q10 for the management of product? 15
(b) Explain about the various pre-market assessment and stability in pharmaceutical formulation? 15



FACULTY DEPARTMENT

IN MEDICAL PROGRAMS AND RESEARCH IN THE PHARMACY AND MEDICINE

SCIENTIFIC

Subject: Regulatory Affairs

Time: 2 hours

Roll No.: 19

NOTE: Answer any five questions. All questions carry equal marks

1. a) Explain the difference between a drug and a medicine. (10)
b) Define a drug and a medicine. (10)
2. a) Explain the regulatory requirements for approval of AT. (10)
b) Explain the role of various regulatory authorities in the United Kingdom. (10)
3. a) Explain the regulatory requirements for approval of AT. (10)
b) Explain the regulatory requirements for approval of AT. (10)
4. a) Explain the regulatory requirements for approval of AT. (10)
b) Explain the regulatory requirements for approval of AT. (10)
5. a) Explain the regulatory requirements for approval of AT. (10)
b) Explain the regulatory requirements for approval of AT. (10)
6. a) Explain the regulatory requirements for approval of AT. (10)
b) Explain the regulatory requirements for approval of AT. (10)
7. a) Explain the regulatory requirements for approval of AT. (10)
b) Explain the regulatory requirements for approval of AT. (10)
8. a) Explain the regulatory requirements for approval of AT. (10)
b) Explain the regulatory requirements for approval of AT. (10)
9. a) Explain the regulatory requirements for approval of AT. (10)
b) Explain the regulatory requirements for approval of AT. (10)
10. a) Explain the regulatory requirements for approval of AT. (10)
b) Explain the regulatory requirements for approval of AT. (10)



2008年12月12日

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14. *Wardlaw, J. November 1972. A History of the War. State & Society Connections.*

2000 2001

Journal of Management Education 35(1)

LEARNING OBJECTIVES

800.755.5555 FAX

Notes: *Source*: 2014 Fed. Reserve. *Ex. Quantities*: 2014 Econ. Data.

- | | |
|--|--|
| 1. a. Define and explain support system software applications. | |
| b. Explain the difference between system and application software. | |
| 2. a. Explain the difference between system and application software. | |
| b. Explain the difference between system and application software. | |
| 3. a. Explain the difference between system and application software. | |
| b. Explain the difference between system and application software. | |
| 4. a. Explain the difference between system and application software. | |
| b. Explain the difference between system and application software. | |
| 5. a. Explain the difference between system and application software. | |
| b. Explain the difference between system and application software. | |
| 6. a. Explain the difference between system and application software. | |
| b. Explain the difference between system and application software. | |
| 7. a. Explain the difference between system and application software. | |
| b. Explain the difference between system and application software. | |
| 8. a. Explain the difference between system and application software. | |
| b. Explain the difference between system and application software. | |
| 9. a. Explain the difference between system and application software. | |
| b. Explain the difference between system and application software. | |
| 10. a. Explain the difference between system and application software. | |
| b. Explain the difference between system and application software. | |



2020-21-0-222044

UNIVERSITY OF BIRMINGHAM

B. SCIENCE (PHARMACEUTICAL SCIENCE) (HONOURS) (4 YEARS)

Year 3B2

Subject: Drug Delivery Systems

Time: 1 hour

Max. Marks: 11

Note: Answer any five questions.

1212-123616

1. a) Define sustained release and controlled release drug delivery system. b) Give an example of sustained release formulation. c) Give an example of controlled release formulation. d) Give an example of controlled release formulation.
2. a) Explain the mechanism of protein degradation. b) Explain the mechanism of protein degradation and its effect on drug delivery.
3. a) Explain the mechanism of protein degradation. b) Explain the mechanism of protein degradation and its effect on drug delivery.
4. a) Explain the mechanism of protein degradation. b) Explain the mechanism of protein degradation and its effect on drug delivery.
5. a) Explain the mechanism of protein degradation. b) Explain the mechanism of protein degradation and its effect on drug delivery.
6. a) Explain the mechanism of protein degradation. b) Explain the mechanism of protein degradation and its effect on drug delivery.
7. a) Explain the mechanism of protein degradation. b) Explain the mechanism of protein degradation and its effect on drug delivery.
8. a) Explain the mechanism of protein degradation. b) Explain the mechanism of protein degradation and its effect on drug delivery.
9. a) Explain the mechanism of protein degradation. b) Explain the mechanism of protein degradation and its effect on drug delivery.
10. a) Explain the mechanism of protein degradation. b) Explain the mechanism of protein degradation and its effect on drug delivery.



COM NO 9/2020/FC

FACULTY OF PHARMACY

F. Pharmacy (Pharmaceuticals) 1st Semester (2020) 1st & 2nd Examinations
May 2020

Subject: Pharmaceutics

17th 3 Hours

20th 3 Hours

Note: Answer any five questions. All questions carry equal marks.

20th 3 Hours

1. a) Discuss the principles and functions of a THERMISTOR.
b) Discuss the distribution of water in the body.
2. a) Discuss the effect of the concentration of a solution on its pH.
b) Discuss the effect of pH on the stability of a solution.
3. a) Discuss the effect of the concentration of a solution on its pH.
b) Discuss the effect of pH on the stability of a solution.
4. a) Discuss the effect of the concentration of a solution on its pH.
b) Discuss the effect of pH on the stability of a solution.
5. a) Discuss the effect of the concentration of a solution on its pH.
b) Discuss the effect of pH on the stability of a solution.
6. a) Discuss the effect of the concentration of a solution on its pH.
b) Discuss the effect of pH on the stability of a solution.
7. a) Discuss the effect of the concentration of a solution on its pH.
b) Discuss the effect of pH on the stability of a solution.
8. a) Discuss the effect of the concentration of a solution on its pH.
b) Discuss the effect of pH on the stability of a solution.
9. a) Discuss the effect of the concentration of a solution on its pH.
b) Discuss the effect of pH on the stability of a solution.



2018-2019-2020

PHARMACY DEPARTMENT

Pharmacy, Pharmacology & Science (P3) Advanced Standing Examination

May 2020

General Regulatory Section

TIME: 2 Hours

MARK: 100

Write down very few questions, we have to carry Examinations

1. a. What is the role of the regulatory authority? 10
b. What is the role of the regulatory authority? 10
2. a. What is the role of the regulatory authority? 10
b. What is the role of the regulatory authority? 10
3. a. What is the role of the regulatory authority? 10
b. What is the role of the regulatory authority? 10
4. a. What is the role of the regulatory authority? 10
b. What is the role of the regulatory authority? 10
5. a. What is the role of the regulatory authority? 10
b. What is the role of the regulatory authority? 10
6. a. What is the role of the regulatory authority? 10
b. What is the role of the regulatory authority? 10
7. a. What is the role of the regulatory authority? 10
b. What is the role of the regulatory authority? 10
8. a. What is the role of the regulatory authority? 10
b. What is the role of the regulatory authority? 10



W. H. Rouse Ball

QUALITY OF HEMLOCK

H. Pflaum, J. Gammert, S. J. Schödl, A. B. Kerschbaum, M. W. Beckmann

Editor: Robert Marriagood, *Head of Technology*

1999

Index: 101

title: "Largest city (the population, all speaking same local dialect)"

1. a) Explain the structure of the atom.
b) Explain the structure of the atom.
2. a) Explain the structure of the atom.
b) Explain the structure of the atom.
3. a) Explain the structure of the atom.
b) Explain the structure of the atom.
4. a) Explain the structure of the atom.
b) Explain the structure of the atom.
5. a) Explain the structure of the atom.
b) Explain the structure of the atom.
6. a) Explain the structure of the atom.
b) Explain the structure of the atom.
7. a) Explain the structure of the atom.
b) Explain the structure of the atom.
8. a) Explain the structure of the atom.
b) Explain the structure of the atom.



CODE NO: P-2880022

UNIVERSITY OF PHARMACY
B. Pharmacy (Pharmaceutics) Semester IV (2020-21)
Examination 2021

Subject: Drug Delivery System

Time: 3 Hours

Roll Number: ()

NOTE: Answer any five questions. All questions carry equal marks.

1. (a) What are the parameters to determine drug release rate?
(b) Define zero-order and first-order drug release.
2. (a) Explain the concept of drug delivery system.
(b) List the advantages of drug delivery system.
3. (a) Explain the concept of drug delivery system.
(b) Define the term drug delivery system.
4. (a) Explain the concept of drug delivery system.
(b) Explain the concept of drug delivery system.
5. (a) Explain the concept of drug delivery system.
(b) Explain the concept of drug delivery system.
6. (a) Explain the concept of drug delivery system.
(b) Explain the concept of drug delivery system.
7. (a) Explain the concept of drug delivery system.
(b) Explain the concept of drug delivery system.
8. (a) Explain the concept of drug delivery system.
(b) Explain the concept of drug delivery system.



Page 1 of 1

FACULTY OF PHARMACY

B. Pharm (Pharmacology) - Internal PCB Exam (Duration: 1 hour)

Subject: Human Pharmacology

Time: 1 hour

Max. Marks: 20

Instructions: Answer any five questions. All questions carry equal marks.

1. (a) Give the meaning of the following terms: *pharmacokinetics* and *pharmacodynamics*.
(b) Give the relationship between the two.
2. (a) Define the term *pharmacokinetics* and its sub-branches.
(b) Give the relationship between the two.
3. (a) Define the term *pharmacodynamics*.
(b) Give the relationship between the two.
4. (a) Give the relationship between the term *pharmacokinetics* and *pharmacodynamics*.
(b) Give the relationship between the two.
5. (a) Give the relationship between the term *pharmacokinetics* and *pharmacodynamics*.
(b) Give the relationship between the two.
6. (a) Give the relationship between the term *pharmacokinetics* and *pharmacodynamics*.
(b) Give the relationship between the two.
7. (a) Give the relationship between the term *pharmacokinetics* and *pharmacodynamics*.
(b) Give the relationship between the two.
8. (a) Give the relationship between the term *pharmacokinetics* and *pharmacodynamics*.
(b) Give the relationship between the two.



FACULTY OF PHARMACY

B. Pharmacy (Pharmaceuticals) - January 2021 (Exempt) Examination
Exempt 1, 20

Subject: Regulatory Affairs

Time: 2 hours

Max. Marks: 70

Note: Answer any five questions. All questions carry equal marks

1. (a) Discuss the regulatory process for new drugs and biologics in the UK.
(b) What is the role of the MHRA in the regulatory process?
2. (a) Discuss the regulatory process for new drugs and biologics in the UK.
(b) What is the role of the MHRA in the regulatory process?
3. (a) Discuss the regulatory process for new drugs and biologics in the UK.
(b) What is the role of the MHRA in the regulatory process?
4. (a) Discuss the regulatory process for new drugs and biologics in the UK.
(b) What is the role of the MHRA in the regulatory process?
5. (a) Discuss the regulatory process for new drugs and biologics in the UK.
(b) What is the role of the MHRA in the regulatory process?
6. (a) Discuss the regulatory process for new drugs and biologics in the UK.
(b) What is the role of the MHRA in the regulatory process?
7. (a) Discuss the regulatory process for new drugs and biologics in the UK.
(b) What is the role of the MHRA in the regulatory process?
8. (a) Discuss the regulatory process for new drugs and biologics in the UK.
(b) What is the role of the MHRA in the regulatory process?



PHYSICS 111 - PHYSICS

K. Heston - (see also Heston's list of questions) - (see also Heston's list of questions)

Subject: Modern Physics and Quantum Mechanics

Year: 11111

Year: 11111

Topic: Quantum Mechanics

Topic: Quantum Mechanics

1. (a) Plot the wave function $\psi(x)$ for a particle in a potential well. (b) Plot the probability density $|\psi(x)|^2$ for a particle in a potential well.
2. (a) Derive the wave function $\psi(x)$ for a particle in a potential well. (b) Derive the probability density $|\psi(x)|^2$ for a particle in a potential well.
3. (a) Plot the wave function $\psi(x)$ for a particle in a potential well. (b) Plot the probability density $|\psi(x)|^2$ for a particle in a potential well.
4. (a) Plot the wave function $\psi(x)$ for a particle in a potential well. (b) Plot the probability density $|\psi(x)|^2$ for a particle in a potential well.
5. (a) Plot the wave function $\psi(x)$ for a particle in a potential well. (b) Plot the probability density $|\psi(x)|^2$ for a particle in a potential well.
6. (a) Plot the wave function $\psi(x)$ for a particle in a potential well. (b) Plot the probability density $|\psi(x)|^2$ for a particle in a potential well.
7. (a) Plot the wave function $\psi(x)$ for a particle in a potential well. (b) Plot the probability density $|\psi(x)|^2$ for a particle in a potential well.
8. (a) Plot the wave function $\psi(x)$ for a particle in a potential well. (b) Plot the probability density $|\psi(x)|^2$ for a particle in a potential well.



Page No. 1/1/2024/12

FACULTY OF PHARMACY

8. Research Pharmacokinetics / Pharmacodynamics (PK/PD) & Safety / Toxicology
 (10/100)

Subject: Regulatory Affairs

Time: 3 hours

Date: / /

Topic: Submission for registration

(2024/25/2024)

1. List the steps for submission of pharmaceutical products.
 (a) Pre-clinical studies (b) Clinical studies (c) Regulatory affairs
2. Describe the steps for submission of pharmaceutical products.
 (a) Pre-clinical studies (b) Clinical studies (c) Regulatory affairs
3. Describe the regulatory requirements for pharmaceutical products.
 (a) Pre-clinical studies (b) Clinical studies (c) Regulatory affairs
4. List the steps for submission of pharmaceutical products.
 (a) Pre-clinical studies (b) Clinical studies (c) Regulatory affairs
5. List the steps for submission of pharmaceutical products.
 (a) Pre-clinical studies (b) Clinical studies (c) Regulatory affairs
6. List the steps for submission of pharmaceutical products.
 (a) Pre-clinical studies (b) Clinical studies (c) Regulatory affairs
7. List the steps for submission of pharmaceutical products.
 (a) Pre-clinical studies (b) Clinical studies (c) Regulatory affairs
8. List the steps for submission of pharmaceutical products.
 (a) Pre-clinical studies (b) Clinical studies (c) Regulatory affairs



Page No. : 1/1/2017

FACULTY OF PHARMACY

8. Research Pharmacokinetics - Pharmacokinetics and Biopharmaceutics
Date: 1/1/2017

Subject: Research Pharmacokinetics

Time: 3 hours

Date: 1/1/2017

Name: 1/1/2017

Date: 1/1/2017

1. (a) Define the term "pharmacokinetics".
(b) Give the definition of "pharmacokinetics".
2. (a) Define the term "pharmacokinetics".
(b) Give the definition of "pharmacokinetics".
3. (a) Define the term "pharmacokinetics".
(b) Give the definition of "pharmacokinetics".
4. (a) Define the term "pharmacokinetics".
(b) Give the definition of "pharmacokinetics".
5. (a) Define the term "pharmacokinetics".
(b) Give the definition of "pharmacokinetics".
6. (a) Define the term "pharmacokinetics".
(b) Give the definition of "pharmacokinetics".
7. (a) Define the term "pharmacokinetics".
(b) Give the definition of "pharmacokinetics".
8. (a) Define the term "pharmacokinetics".
(b) Give the definition of "pharmacokinetics".



CUK045 2 000003

FACULTY OF PHARMACY

**R. Pharmacy (Pharmaceuticals) – Semester 2020/21 & Nov/Dec
Examination May 2022
Subject: Drug Delivery Systems**

Time: 1 hour

Start: 10:15 AM

NOTE: answer any two questions

1 of 17 (17 pages)

1. (a) What are the differences between a polymer based formulation and a non-polymer based?
(b) Discuss the role of polymer in drug delivery systems for controlled release formulations.
2. (a) What is the role of a polymer in drug delivery systems?
(b) Discuss the role of polymer in drug delivery systems.
3. (a) What is the role of a polymer in drug delivery systems?
(b) Discuss the role of polymer in drug delivery systems.
4. (a) What are the different types of polymer based formulations?
(b) Discuss the role of polymer in drug delivery systems.
5. Discuss the role of polymer in drug delivery systems.
6. Discuss the role of polymer in drug delivery systems.
7. (a) What are the different types of polymer based formulations?
(b) Discuss the role of polymer in drug delivery systems.
8. (a) What are the different types of polymer based formulations?
(b) Discuss the role of polymer in drug delivery systems.



Date: 04/08/2021

SCHOOL OF PHARMACY

B. Pharmacy I Semester /08 /Subject: Pharmacology, Semester 2021
(COMMON TO ALL)

Subject: Modern Pharmacology & Analytical Techniques

Time: 2 hours

Roll: 000000000000

Notes: Answer any three questions. All questions carry equal marks.

(100 Marks)

1. a) Define and explain the term: Antidote. Give an example of an antidote used in MPT. (10)
- b) Explain the mechanism of action of MPT. (10)
2. a) Explain the structure and function of the T₁ receptor with a diagram. (10)
- b) Explain the mechanism of action of T₁ receptor. (10)
- c) Explain the mechanism of action of T₁ receptor. (10)
3. a) Explain the structure and function of the T₂ receptor with a diagram. (10)
- b) Explain the mechanism of action of T₂ receptor. (10)
4. a) Explain the structure and function of the T₃ receptor with a diagram. (10)
- b) Explain the mechanism of action of T₃ receptor. (10)
5. a) Explain the structure and function of the T₄ receptor with a diagram. (10)
- b) Explain the mechanism of action of T₄ receptor. (10)
6. a) Explain the structure and function of the T₅ receptor with a diagram. (10)
- b) Explain the mechanism of action of T₅ receptor. (10)
7. a) Explain the structure and function of the T₆ receptor with a diagram. (10)
- b) Explain the mechanism of action of T₆ receptor. (10)
8. a) Explain the structure and function of the T₇ receptor with a diagram. (10)
- b) Explain the mechanism of action of T₇ receptor. (10)
9. a) Explain the structure and function of the T₈ receptor with a diagram. (10)
- b) Explain the mechanism of action of T₈ receptor. (10)
10. a) Explain the structure and function of the T₉ receptor with a diagram. (10)
- b) Explain the mechanism of action of T₉ receptor. (10)

FACULTY OF MEDICINE

1st Year MBBS, 2022-23

ANATOMY

Time: 1 hour

Max. Marks: 10

Only Answer any 10 of the questions. All questions carry equal marks.

(1 × 10 = 10 Marks)

1. a) Define pericardial cavity. b) State its capacity and its pressure.
c) What is the pericardial cavity? d) What is the pericardial cavity?
2. a) What is the pericardial cavity? b) State its capacity and its pressure.
c) What is the pericardial cavity? d) What is the pericardial cavity?
3. a) Define pericardial cavity. b) State its capacity and its pressure.
c) What is the pericardial cavity? d) What is the pericardial cavity?
4. a) Define pericardial cavity. b) State its capacity and its pressure.
c) What is the pericardial cavity? d) What is the pericardial cavity?
5. a) Define pericardial cavity. b) State its capacity and its pressure.
c) What is the pericardial cavity? d) What is the pericardial cavity?
6. a) Define pericardial cavity. b) State its capacity and its pressure.
c) What is the pericardial cavity? d) What is the pericardial cavity?
7. a) Define pericardial cavity. b) State its capacity and its pressure.
c) What is the pericardial cavity? d) What is the pericardial cavity?
8. a) Define pericardial cavity. b) State its capacity and its pressure.
c) What is the pericardial cavity? d) What is the pericardial cavity?
9. a) Define pericardial cavity. b) State its capacity and its pressure.
c) What is the pericardial cavity? d) What is the pericardial cavity?
10. a) Define pericardial cavity. b) State its capacity and its pressure.
c) What is the pericardial cavity? d) What is the pericardial cavity?



(total 60 marks)

FACULTY OF PHARMACY
in Pharmacy (Pharmaceuticals) and the Pharmaceutical Sciences
Course: 325

Unit: pharmaceuticals

Time: 2 hours

Roll number: 16

Notes: Answer any five questions. All questions carry equal marks.

(40% of the marks)

1. (a) Discuss the importance and evolution of GMP/GXP.
 (b) List all the factors used for determination of drug release from a controlled release tablet with examples.
2. (a) Discuss the importance of quality assurance in pharmaceutical industry.
 (b) Define quality assurance, quality control and quality management.
3. (a) Discuss the impact of drugs on environment and other aspects of GMP.
 (b) Define a pharmaceutical enterprise, pharmaceutical product management.
4. (a) Discuss the importance of drugs in human body for determination of pharmacokinetic drug-drug interaction.
 (b) Discuss the nature of drug metabolism of pharmaceutical drugs.
5. (a) Discuss about the pharmaceutical products related to pharmaceutical development.
 (b) Describe the importance of chemical synthesis in pharmaceutical industry.
6. (a) Discuss the importance of drugs related to pharmaceutical development.
 (b) Define pharmaceutical development.
7. (a) Discuss the importance of drugs related to pharmaceutical development.
 (b) Define pharmaceutical development.
8. (a) Discuss the importance of drugs related to pharmaceutical development.
 (b) Define pharmaceutical development.



Volume 18 (2020)

INSTITUTE OF PHARMACY
Sumatran Institute of Pharmaceutical Sciences (SIPAS)
Pharmaceutical Technology

Local Modern Pharmaceutical Technology

Time 2 Hour

Max. Mark 10

Write answer questions for the following questions

3.120174194

1. a) What is the most common drug class? b) What is the most common drug class? c) What is the most common drug class?
2. a) What is the most common drug class? b) What is the most common drug class? c) What is the most common drug class?
3. a) What is the most common drug class? b) What is the most common drug class? c) What is the most common drug class?
4. a) What is the most common drug class? b) What is the most common drug class? c) What is the most common drug class?
5. a) What is the most common drug class? b) What is the most common drug class? c) What is the most common drug class?
6. a) What is the most common drug class? b) What is the most common drug class? c) What is the most common drug class?
7. a) What is the most common drug class? b) What is the most common drug class? c) What is the most common drug class?
8. a) What is the most common drug class? b) What is the most common drug class? c) What is the most common drug class?
9. a) What is the most common drug class? b) What is the most common drug class? c) What is the most common drug class?
10. a) What is the most common drug class? b) What is the most common drug class? c) What is the most common drug class?



**Faculty of Education
Bachelors Programme in Early Childhood Education
2021**

Subject: Early Childhood Education

Time: 2 hours

Date: 2021.11.11

Write answers to all the following questions

2 x 25 = 50 marks

1. (a) Define and give an example of a child's *emotional* and *social* development.
(b) Explain the importance of a child's *emotional* and *social* development.
2. (a) Explain the importance of a child's *emotional* and *social* development.
(b) Explain the importance of a child's *emotional* and *social* development.
3. (a) Explain the importance of a child's *emotional* and *social* development.
(b) Explain the importance of a child's *emotional* and *social* development.
4. (a) Explain the importance of a child's *emotional* and *social* development.
(b) Explain the importance of a child's *emotional* and *social* development.
5. (a) Explain the importance of a child's *emotional* and *social* development.
(b) Explain the importance of a child's *emotional* and *social* development.
6. (a) Explain the importance of a child's *emotional* and *social* development.
(b) Explain the importance of a child's *emotional* and *social* development.
7. (a) Explain the importance of a child's *emotional* and *social* development.
(b) Explain the importance of a child's *emotional* and *social* development.
8. (a) Explain the importance of a child's *emotional* and *social* development.
(b) Explain the importance of a child's *emotional* and *social* development.
9. (a) Explain the importance of a child's *emotional* and *social* development.
(b) Explain the importance of a child's *emotional* and *social* development.
10. (a) Explain the importance of a child's *emotional* and *social* development.
(b) Explain the importance of a child's *emotional* and *social* development.



Examination - 2021
Examination - 2021
Examination - 2021

Examination - 2021

Time: 2 hours

Max. Marks: 100

Write answers for the following questions

2 x 25 = 50 Marks

1. (a) Explain the importance of the study of the history of the world.
 (b) Explain the evolution of the world from the beginning to the present.
2. (a) Explain the role of the world in the development of the world.
 (b) Explain the role of the world in the development of the world.
3. (a) Explain the role of the world in the development of the world.
 (b) Explain the role of the world in the development of the world.
4. (a) Explain the role of the world in the development of the world.
 (b) Explain the role of the world in the development of the world.
5. (a) Explain the role of the world in the development of the world.
 (b) Explain the role of the world in the development of the world.
6. (a) Explain the role of the world in the development of the world.
 (b) Explain the role of the world in the development of the world.
7. (a) Explain the role of the world in the development of the world.
 (b) Explain the role of the world in the development of the world.
8. (a) Explain the role of the world in the development of the world.
 (b) Explain the role of the world in the development of the world.
9. (a) Explain the role of the world in the development of the world.
 (b) Explain the role of the world in the development of the world.
10. (a) Explain the role of the world in the development of the world.
 (b) Explain the role of the world in the development of the world.



Examination of the following questions
Answer any four of the following questions
40/100

Examination of the following questions

Time 2 hours

Max. Marks 100

Write answers any four of the following questions **(5+20+10 Marks)**

1. (a) Explain the importance of the following in the management of the following:
(i) Public health and population control and growth.
2. (a) Explain the importance of the following in the management of the following:
(i) Public health and population control and growth.
3. (a) Explain the importance of the following in the management of the following:
(i) Public health and population control and growth.
4. (a) Explain the importance of the following in the management of the following:
(i) Public health and population control and growth.
5. (a) Explain the importance of the following in the management of the following:
(i) Public health and population control and growth.
6. (a) Explain the importance of the following in the management of the following:
(i) Public health and population control and growth.
7. (a) Explain the importance of the following in the management of the following:
(i) Public health and population control and growth.
8. (a) Explain the importance of the following in the management of the following:
(i) Public health and population control and growth.
9. (a) Explain the importance of the following in the management of the following:
(i) Public health and population control and growth.
10. (a) Explain the importance of the following in the management of the following:
(i) Public health and population control and growth.



FACULTY OF PHARMACY

Page No. 222495

Examination paper for 2nd year students - semester (20) (Spring)
Pharmaceutical Chemistry
General Medicines - Pharmaceutical Chemistry of Anticancer

Total Marks

Max. Marks: 50

Write answers any five questions. (10 marks each)

1. a) Write the mechanism of action of the anticancer drug Cisplatin.
b) Write the mechanism of action of the anticancer drug Doxorubicin.
2. a) Write the mechanism of action of the anticancer drug Paclitaxel.
b) Write the mechanism of action of the anticancer drug Etoposide.
3. a) Write the mechanism of action of the anticancer drug Vinorelbine.
b) Write the mechanism of action of the anticancer drug Irinotecan.
4. a) Write the mechanism of action of the anticancer drug Gemtuzumab.
b) Write the mechanism of action of the anticancer drug Rituximab.
5. a) Write the mechanism of action of the anticancer drug Trastuzumab.
b) Write the mechanism of action of the anticancer drug Lapatinib.
6. a) Write the mechanism of action of the anticancer drug Gefitinib.
b) Write the mechanism of action of the anticancer drug Erlotinib.
7. a) Write the mechanism of action of the anticancer drug Imatinib.
b) Write the mechanism of action of the anticancer drug Dasatinib.
8. a) Write the mechanism of action of the anticancer drug Nilotinib.
b) Write the mechanism of action of the anticancer drug Bosutinib.
9. a) Write the mechanism of action of the anticancer drug Acute Myeloid Leukemia (AML) and Chronic Myeloid Leukemia (CML).
10. a) Write the mechanism of action of the anticancer drug Acute Lymphoblastic Leukemia (ALL) and Chronic Lymphoblastic Leukemia (CLL).



CODE NO. 800503

FACILITY FEEDBACK

Answer (please attach) in answer (FO) (app) Examination.
(October 2021)

Health Drug Delivery System

Date: 2/11/21

Page No. 1/1

Q.1. What is the role of the Health Drug Delivery System?

ANSWER: 1/1

1. The Health Drug Delivery System is a system of health services that provides a wide range of health services to the community. It is a system of health services that provides a wide range of health services to the community. It is a system of health services that provides a wide range of health services to the community.
2. The Health Drug Delivery System is a system of health services that provides a wide range of health services to the community. It is a system of health services that provides a wide range of health services to the community. It is a system of health services that provides a wide range of health services to the community.
3. The Health Drug Delivery System is a system of health services that provides a wide range of health services to the community. It is a system of health services that provides a wide range of health services to the community. It is a system of health services that provides a wide range of health services to the community.
4. The Health Drug Delivery System is a system of health services that provides a wide range of health services to the community. It is a system of health services that provides a wide range of health services to the community. It is a system of health services that provides a wide range of health services to the community.
5. The Health Drug Delivery System is a system of health services that provides a wide range of health services to the community. It is a system of health services that provides a wide range of health services to the community. It is a system of health services that provides a wide range of health services to the community.
6. The Health Drug Delivery System is a system of health services that provides a wide range of health services to the community. It is a system of health services that provides a wide range of health services to the community. It is a system of health services that provides a wide range of health services to the community.
7. The Health Drug Delivery System is a system of health services that provides a wide range of health services to the community. It is a system of health services that provides a wide range of health services to the community. It is a system of health services that provides a wide range of health services to the community.
8. The Health Drug Delivery System is a system of health services that provides a wide range of health services to the community. It is a system of health services that provides a wide range of health services to the community. It is a system of health services that provides a wide range of health services to the community.
9. The Health Drug Delivery System is a system of health services that provides a wide range of health services to the community. It is a system of health services that provides a wide range of health services to the community. It is a system of health services that provides a wide range of health services to the community.
10. The Health Drug Delivery System is a system of health services that provides a wide range of health services to the community. It is a system of health services that provides a wide range of health services to the community. It is a system of health services that provides a wide range of health services to the community.



2004-05-01

2000年7月16日

6. Pharmacy Department (J. A. Swickard, JDC, Chair)

Publications, November 2000

Abstract Background: The purpose of this study was to determine whether there were differences in the prevalence of self-reported depression between men and women who had been exposed to violence during childhood.

May 26, 1999

1004

Notes concerning the Discussion

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1. The development of the gross primary productivity (GPP) and net primary productivity (NPP) of the ecosystem depends on the amount of light available to the plants.
2. The amount of light available to the plants depends on the amount of light that reaches the surface of the water.
3. The amount of light that reaches the surface of the water depends on the amount of light that is reflected by the water.
4. The amount of light that is reflected by the water depends on the amount of light that is absorbed by the water.
5. The amount of light that is absorbed by the water depends on the amount of light that is scattered by the water.
6. The amount of light that is scattered by the water depends on the amount of light that is refracted by the water.
7. The amount of light that is refracted by the water depends on the amount of light that is reflected by the water.
8. The amount of light that is reflected by the water depends on the amount of light that is absorbed by the water.
9. The amount of light that is absorbed by the water depends on the amount of light that is scattered by the water.
10. The amount of light that is scattered by the water depends on the amount of light that is refracted by the water.

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FACULTY OF ENGINEERING

DATE: 05/05/2023

IN ENGLISH, PRESENTED IN 4 HOURS (PVC / SUPPL)

Examination: Invention 200

<https://www.zim.ac.zw>

TIME: 2 HOURS

DATE: 05/05/2023

NOTE: ANSWER ANY THREE QUESTIONS.

20/05/2023

1. Explain the concept of a "black box" model in the context of a system.
2. Discuss the advantages and disadvantages of using a "black box" model.
3. Explain the concept of a "white box" model in the context of a system.
4. Discuss the advantages and disadvantages of using a "white box" model.
5. Explain the concept of a "grey box" model in the context of a system.
6. Discuss the advantages and disadvantages of using a "grey box" model.
7. Explain the concept of a "hybrid" model in the context of a system.
8. Discuss the advantages and disadvantages of using a "hybrid" model.



UNIVERSITY OF PHARMACY

Pharmaceuticals - General (PG) 1st & 2nd Examination
February 2016

Subject: Drug Delivery System

Time: 200

Total Marks: 75

Note: Answer any five questions, all questions carry equal marks.

1. Explain the mechanism of action of the following: (a) emulsion (b) microcapsules. (10)
2. Explain the mechanism of action of the following: (a) microcapsules (b) microcapsules. (10)
3. Explain the mechanism of action of the following: (a) microcapsules (b) microcapsules. (10)
4. Explain the mechanism of action of the following: (a) microcapsules (b) microcapsules. (10)
5. Explain the mechanism of action of the following: (a) microcapsules (b) microcapsules. (10)
6. Explain the mechanism of action of the following: (a) microcapsules (b) microcapsules. (10)
7. Explain the mechanism of action of the following: (a) microcapsules (b) microcapsules. (10)
8. Explain the mechanism of action of the following: (a) microcapsules (b) microcapsules. (10)



FACULTY OF PHARMACY

Pharmacy (Pharmaceutics) - Semester - IV (Jammu & Kashmir University)
January 2021

Subject: Dispensary (Practical)

Total marks: 100

Time: 3 hours: 30

Write answers any Five questions. All questions carry Equal Marks

1. (a) Define what is a USP (United States Pharmacopoeia) 10
- (b) Define a standard solution in terms of weight and volume or volume and volume. 10
2. Define MCL (Maximum Concentration Limit) 10
3. What is the regulation in relation to the use of USP 10
4. (a) Explain the function of USP (United States Pharmacopoeia) 10
- (b) Define USP (United States Pharmacopoeia) 10
5. Define the term 'Standard Solution' of USP 10
6. Critical discussion: 10
 - (a) What is the function of USP 10
 - (b) How is the USP (United States Pharmacopoeia) 10
7. Define what is a USP (United States Pharmacopoeia) 10
 - (a) USP (United States Pharmacopoeia) 10
 - (b) USP (United States Pharmacopoeia) 10
8. Define what is a USP (United States Pharmacopoeia) 10
 - (a) USP (United States Pharmacopoeia) 10
 - (b) USP (United States Pharmacopoeia) 10



Date: 10/10/2020

MINISTRY OF HEALTH

For Pharmaceutical Formulation (PF) and Bulk Drug Distribution
January 2021

Subject: General Pharmacology

Time: 2 Hours

Max. Marks: 100

Note: Answer any Five questions. All questions carry equal marks.

1. (a) Explain the distribution of drugs in terms of their physicochemical properties.
(b) Explain the factors affecting the distribution of drugs in the body. 10
2. Explain the pharmacokinetics of drugs. 10
3. (a) Explain the pharmacokinetics of drugs in terms of their physicochemical properties.
(b) Explain the pharmacokinetics of drugs in terms of their pharmacological properties. 10
4. Explain the pharmacokinetics of drugs in terms of their pharmacological properties. 10
5. Explain the pharmacokinetics of drugs in terms of their pharmacological properties. 10
6. Explain the pharmacokinetics of drugs in terms of their pharmacological properties. 10
7. Explain the pharmacokinetics of drugs in terms of their pharmacological properties. 10
8. (a) Explain the pharmacokinetics of drugs in terms of their pharmacological properties.
(b) Explain the pharmacokinetics of drugs in terms of their pharmacological properties. 10



FACULTY OF PHARMACY

Examination paper for all Baccalaureate Pharmacy (PharmD)
Examination, August 2019

Subject: Modern Pharmaceutical Technology

Time: 2 hours

Max. score: 60

Write Answer by this question. All questions carry equal marks.

1. a. Write down 2021 objectives of the course. 5
- b. Explain the difference between a question and a problem. 5
- c. Give an example of a question and a problem. 5
- d. Explain the importance of the role of a pharmacist in the community. 5
- e. Give an example of a question and a problem. 5
- f. Explain the difference between a question and a problem. 5
2. a. Explain the importance of the role of a pharmacist in the community. 5
- b. Give an example of a question and a problem. 5
- c. Explain the difference between a question and a problem. 5
- d. Give an example of a question and a problem. 5
- e. Explain the importance of the role of a pharmacist in the community. 5
- f. Give an example of a question and a problem. 5
3. a. Explain the importance of the role of a pharmacist in the community. 5
- b. Give an example of a question and a problem. 5
- c. Explain the difference between a question and a problem. 5
- d. Give an example of a question and a problem. 5
- e. Explain the importance of the role of a pharmacist in the community. 5
- f. Give an example of a question and a problem. 5
4. a. Explain the importance of the role of a pharmacist in the community. 5
- b. Give an example of a question and a problem. 5
- c. Explain the difference between a question and a problem. 5
- d. Give an example of a question and a problem. 5
- e. Explain the importance of the role of a pharmacist in the community. 5
- f. Give an example of a question and a problem. 5
5. a. Explain the importance of the role of a pharmacist in the community. 5
- b. Give an example of a question and a problem. 5
- c. Explain the difference between a question and a problem. 5
- d. Give an example of a question and a problem. 5
- e. Explain the importance of the role of a pharmacist in the community. 5
- f. Give an example of a question and a problem. 5
6. a. Explain the importance of the role of a pharmacist in the community. 5
- b. Give an example of a question and a problem. 5
- c. Explain the difference between a question and a problem. 5
- d. Give an example of a question and a problem. 5
- e. Explain the importance of the role of a pharmacist in the community. 5
- f. Give an example of a question and a problem. 5
7. a. Explain the importance of the role of a pharmacist in the community. 5
- b. Give an example of a question and a problem. 5
- c. Explain the difference between a question and a problem. 5
- d. Give an example of a question and a problem. 5
- e. Explain the importance of the role of a pharmacist in the community. 5
- f. Give an example of a question and a problem. 5
8. a. Explain the importance of the role of a pharmacist in the community. 5
- b. Give an example of a question and a problem. 5
- c. Explain the difference between a question and a problem. 5
- d. Give an example of a question and a problem. 5
- e. Explain the importance of the role of a pharmacist in the community. 5
- f. Give an example of a question and a problem. 5
9. a. Explain the importance of the role of a pharmacist in the community. 5
- b. Give an example of a question and a problem. 5
- c. Explain the difference between a question and a problem. 5
- d. Give an example of a question and a problem. 5
- e. Explain the importance of the role of a pharmacist in the community. 5
- f. Give an example of a question and a problem. 5
10. a. Explain the importance of the role of a pharmacist in the community. 5
- b. Give an example of a question and a problem. 5
- c. Explain the difference between a question and a problem. 5
- d. Give an example of a question and a problem. 5
- e. Explain the importance of the role of a pharmacist in the community. 5
- f. Give an example of a question and a problem. 5



Code No: 110490

FACULTY OF PHARMACY

Pharmacy Pharmacology (I) Semester (I) Exam Date:
August 2021

Signed: Regulatory Affairs

Time: 3 Hours

Max. Marks: 75

Write Answer any Five Questions, 5 Questions Out of Eight Given.

1. a) Write a note on composition and types of Drug Formulas
b) Consider the contents of each Pharmacokinetic
c) Write about the importance of Pharmacokinetic parameters
2. Explain the importance of the following in the study of drug action
a) Pharmacokinetics
b) Pharmacodynamics
3. Explain the following:
a) Pharmacokinetics
b) Pharmacodynamics
4. Give a brief note on the following: Pharmacokinetics and Pharmacodynamics
5. Give a brief note on the following: Pharmacokinetics and Pharmacodynamics
6. Give a brief note on the following: Pharmacokinetics and Pharmacodynamics
7. Give a brief note on the following: Pharmacokinetics and Pharmacodynamics
8. Give a brief note on the following: Pharmacokinetics and Pharmacodynamics



Code No: HCUAP0

FACULTY OF PHARMACY

The Faculty of Pharmacy, University of Hail, Examination
Subject: Drug Delivery System

Subject: Drug Delivery System

(Time: 2 Hours)

(Max. Marks: 50)

NOTE: Answer any Five Questions. All Questions Carry Equal Marks.

1. (a) Define parenteral and non-parenteral drug delivery systems and (7) marking of pharmaceutical? (7)
(b) What are the advantages and disadvantages of parenteral drug delivery system? (7)
2. (a) Define parenteral drug delivery system? (2) (b) What are the advantages and disadvantages of parenteral drug delivery system? (8)
3. (a) Define parenteral drug delivery system? (2) (b) What are the advantages and disadvantages of parenteral drug delivery system? (8)
4. (a) Define parenteral drug delivery system? (2) (b) What are the advantages and disadvantages of parenteral drug delivery system? (8)
5. (a) Define parenteral drug delivery system? (2) (b) What are the advantages and disadvantages of parenteral drug delivery system? (8)
6. (a) Define parenteral drug delivery system? (2) (b) What are the advantages and disadvantages of parenteral drug delivery system? (8)
7. (a) Define parenteral drug delivery system? (2) (b) What are the advantages and disadvantages of parenteral drug delivery system? (8)
8. (a) Define parenteral drug delivery system? (2) (b) What are the advantages and disadvantages of parenteral drug delivery system? (8)
9. (a) Define parenteral drug delivery system? (2) (b) What are the advantages and disadvantages of parenteral drug delivery system? (8)
10. (a) Define parenteral drug delivery system? (2) (b) What are the advantages and disadvantages of parenteral drug delivery system? (8)



Code No: 100290

FACULTY OF PHARMACY

Pharmacy Department - Jordanian PG (I) Exam - External
Subject: PH

Topic: Neuro-Pharmacology

Time: 1 hour

Max. Marks: 20

Note: Answer any Five Questions. (5 Questions Carry Equal Marks)

1. (a) Explain the mechanism of drug action on centrally acting
(b) Explain the mechanism of action of centrally acting drugs. (4)
2. (a) Explain the mechanism of action of centrally acting drugs. (4)
(b) Explain the mechanism of action of centrally acting drugs. (4)
3. Explain the mechanism of action of centrally acting drugs. (4)
4. (a) Explain the mechanism of action of centrally acting drugs. (4)
(b) Explain the mechanism of action of centrally acting drugs. (4)
5. (a) Explain the mechanism of action of centrally acting drugs. (4)
(b) Explain the mechanism of action of centrally acting drugs. (4)
6. (a) Explain the mechanism of action of centrally acting drugs. (4)
(b) Explain the mechanism of action of centrally acting drugs. (4)
7. (a) Explain the mechanism of action of centrally acting drugs. (4)
(b) Explain the mechanism of action of centrally acting drugs. (4)
8. (a) Explain the mechanism of action of centrally acting drugs. (4)
(b) Explain the mechanism of action of centrally acting drugs. (4)
9. (a) Explain the mechanism of action of centrally acting drugs. (4)
(b) Explain the mechanism of action of centrally acting drugs. (4)
10. (a) Explain the mechanism of action of centrally acting drugs. (4)
(b) Explain the mechanism of action of centrally acting drugs. (4)



2005-06 (14670)

FACULTY OF PHARMACY

of Pharmacy, Council of Higher Education, Bangalore 14 January

Joint & Single Question Paper, January 2005

Subject: Medical Pharmacology and Therapeutics

Total 2 Hours

Max. Marks 75

NOTE: Answer any Five Questions. All Questions carry Equal Marks

- (i) a. What is the clinical significance of the following?
 - (1) Drug-induced liver damage
 - (2) Drug-induced renal damage
- (ii) a. Discuss the following:
 - (1) Pharmacokinetics of drugs
 - (2) Pharmacodynamics of drugs
- (iii) a. Discuss the following:
 - (1) Drug-induced liver damage
 - (2) Drug-induced renal damage
 - (3) Drug-induced cardiac damage
- (iv) a. Discuss the following:
 - (1) Drug-induced liver damage
 - (2) Drug-induced renal damage
 - (3) Drug-induced cardiac damage
- (v) a. Discuss the following:
 - (1) Drug-induced liver damage
 - (2) Drug-induced renal damage
 - (3) Drug-induced cardiac damage
- (vi) a. Discuss the following:
 - (1) Drug-induced liver damage
 - (2) Drug-induced renal damage
 - (3) Drug-induced cardiac damage
- (vii) a. Discuss the following:
 - (1) Drug-induced liver damage
 - (2) Drug-induced renal damage
 - (3) Drug-induced cardiac damage
- (viii) a. Discuss the following:
 - (1) Drug-induced liver damage
 - (2) Drug-induced renal damage
 - (3) Drug-induced cardiac damage
- (ix) a. Discuss the following:
 - (1) Drug-induced liver damage
 - (2) Drug-induced renal damage
 - (3) Drug-induced cardiac damage
- (x) a. Discuss the following:
 - (1) Drug-induced liver damage
 - (2) Drug-induced renal damage
 - (3) Drug-induced cardiac damage



FACULTY OF PHARMACY

Pharmacy Department - Semester 2021/2022 (Continued)

January 2022

UGPP1 - Regulatory Issues

TOTAL MARKS

TOTAL MARKS/50

UGPP1 Answer any Five questions of 10 marks (each) of the following.

- | | |
|--|----|
| 1. a) Describe any one part of importation process as it relates to registration. | 7 |
| b) Explain the role of the Director General of Health Services in importation process. | 3 |
| 2. Briefly explain the role of the Director General of Health Services in the importation process. | 10 |
| 3. a) Explain the role of the Director General of Health Services in the importation process. | 3 |
| b) Explain the role of the Director General of Health Services in the importation process. | 7 |
| 4. a) Explain the role of the Director General of Health Services in the importation process. | 6 |
| b) Explain the role of the Director General of Health Services in the importation process. | 4 |
| 5. a) Explain the role of the Director General of Health Services in the importation process. | 6 |
| b) Explain the role of the Director General of Health Services in the importation process. | 4 |
| 6. a) Explain the role of the Director General of Health Services in the importation process. | 7 |
| b) Explain the role of the Director General of Health Services in the importation process. | 3 |
| 7. a) Explain the role of the Director General of Health Services in the importation process. | 6 |
| b) Explain the role of the Director General of Health Services in the importation process. | 4 |
| 8. a) Explain the role of the Director General of Health Services in the importation process. | 7 |
| b) Explain the role of the Director General of Health Services in the importation process. | 3 |

TOTAL MARKS/50



UNIVERSITY OF JORDAN

Page No. 1134775

Faculty of Pharmacy - Jordan - 1134775
 Pharmacy 2019

Final Exam - Pharmacology

Time: 3 hours

Max. Marks: 50

Note: Answer any Five Questions (10 Questions Carry Equal Marks)

1. Explain the mechanism of action of the following drugs:
 - a. Digoxin
 - b. Furosemide
 - c. Nifedipine
2. Explain the mechanism of action of the following drugs:
 - a. Aspirin
 - b. Paracetamol
 - c. Ibuprofen
3. Explain the mechanism of action of the following drugs:
 - a. Morphine
 - b. Codeine
 - c. Fentanyl
4. Explain the mechanism of action of the following drugs:
 - a. Atropine
 - b. Scopolamine
 - c. Pilocarpine
5. Explain the mechanism of action of the following drugs:
 - a. Insulin
 - b. Glucagon
 - c. Somatostatin
6. Explain the mechanism of action of the following drugs:
 - a. Vitamin D
 - b. Vitamin K
 - c. Vitamin E
7. Explain the mechanism of action of the following drugs:
 - a. Vitamin A
 - b. Vitamin B1
 - c. Vitamin B12
8. Explain the mechanism of action of the following drugs:
 - a. Vitamin C
 - b. Vitamin B6
 - c. Vitamin B9
9. Explain the mechanism of action of the following drugs:
 - a. Vitamin D
 - b. Vitamin K
 - c. Vitamin E

Signature of the Candidate
 Date: _____



FACULTY OF PHARMACY

Pharmacy (Control in 1st Semester) (PC013000) Examination
August 2018

Subject: Human Pharmaceutical Analysis Techniques

(Time: 3 hours)

(Max. Marks: 100)

Notes: Answer any five questions. All questions carry equal marks.

- (a) Discuss the main principles of HPLC system. At least five points must be given. (10)

(b) Why is a mobile phase? Explain with a diagram. (10)
- (a) Discuss the instrumentation and working of detectors in HPLC system. At least five points must be given. (10)

(b) Draw a schematic diagram of a HPLC system. (10)
- (a) Explain the following:

 - Chromatography is a separation technique. (10)
 - Mobile phase is a liquid or gas. (10)

(b) Draw a schematic diagram of a HPLC system. (10)
- (a) Discuss the theory and instrumentation of chromatography. At least five points must be given. (10)

(b) Why is a mobile phase? Explain with a diagram. (10)
- (a) Discuss the types of HPLC detectors in instrumentation and working of HPLC. At least five points must be given. (10)

(b) Discuss the role of HPLC in pharmaceutical analysis. (10)
- (a) Discuss the theory and instrumentation of chromatography. At least five points must be given. (10)

(b) Why is a mobile phase? Explain with a diagram. (10)
- (a) Discuss the theory and instrumentation of chromatography. At least five points must be given. (10)

(b) Why is a mobile phase? Explain with a diagram. (10)
- (a) Discuss the theory and instrumentation of chromatography. At least five points must be given. (10)

(b) Why is a mobile phase? Explain with a diagram. (10)
- (a) Discuss the theory and instrumentation of chromatography. At least five points must be given. (10)

(b) Why is a mobile phase? Explain with a diagram. (10)
- (a) Discuss the theory and instrumentation of chromatography. At least five points must be given. (10)

(b) Why is a mobile phase? Explain with a diagram. (10)



Exam No. 2018C

FACULTY OF PHARMACY

Pharmacy (Pharmaceuticals) - Semester (TCR) Applied Pharmaceutics
Applied 1201

Injectable Drug Delivery Systems

(Time: 1 hour)

(Max. marks: 15)

Answer, wherever applicable, all questions comprehensively.

- 1) Discuss the classification and biocompatibility of injectable systems. (10)
- 2) a) Classify parenteral systems for administration of injectable systems. (1)
b) Give a brief definition of parenteral system. (1)
- 3) Write a short note on:
a) Chemical compatibility of injectable systems. (1)
b) Parenteral system stability. (1)
- 4) What are the main drug delivery systems of the parenteral system? Give the advantages of parenteral system. (10)
- 5) a) Give the main advantages of injectable drug delivery system. (1)
b) Give the main disadvantages of injectable drug delivery system. (1)
- 6) a) Give the main advantages of parenteral drug delivery system. (1)
b) Give the main disadvantages of parenteral drug delivery system. (1)
- 7) Write a short note on the following: (10)
a) Parenteral drug delivery system. (1)
b) Parenteral drug delivery system. (1)
- 8) a) Parenteral drug delivery system. (1)
b) Parenteral drug delivery system. (1)



2020-21 (100000)

FACULTY OF PHARMACY

Pharmacy (B.Pharm) (Semester IV) (B.Sc. Degree) (Common to all branches)

Subject: Regulatory Affairs

Time: 3 hours

Max. Marks: 100

Note: Answer any five questions, 40 questions in 4 hours.

1. a) Explain the regulatory process involved in the registration of a new drug.
or Explain the role of CDSCO in the registration of a new drug.
or Explain the role of CDSCO in the registration of a new drug. (10)
2. Explain the regulatory process involved in the registration of a new drug. (10)
3. What is the regulatory process for the registration of a new drug? (10)
4. Explain the regulatory process for the registration of a new drug. (10)
5. Explain the regulatory process for the registration of a new drug. (10)
6. Explain the regulatory process for the registration of a new drug. (10)
7. Explain the regulatory process for the registration of a new drug. (10)
8. Explain the regulatory process for the registration of a new drug. (10)



FACULTY OF PHARMACY

Pharmacy (Pharmaceutical Sciences) Department Supervisor

Subject: Pharmacokinetics

Page No. 1/ 1

NBK: Submit by the students all answers in proper form.

1. a) Define the following: i) drug i) drug metabolism ii) drug excretion
b) Describe the properties of DDT (DDT) and how it is eliminated from the body.
c) Define the following: i) drug i) drug metabolism ii) drug excretion
2. a) Define the following: i) drug i) drug metabolism ii) drug excretion
b) Describe the properties of DDT (DDT) and how it is eliminated from the body.
c) Define the following: i) drug i) drug metabolism ii) drug excretion
3. a) Define the following: i) drug i) drug metabolism ii) drug excretion
b) Describe the properties of DDT (DDT) and how it is eliminated from the body.
c) Define the following: i) drug i) drug metabolism ii) drug excretion
4. a) Define the following: i) drug i) drug metabolism ii) drug excretion
b) Describe the properties of DDT (DDT) and how it is eliminated from the body.
c) Define the following: i) drug i) drug metabolism ii) drug excretion
5. a) Define the following: i) drug i) drug metabolism ii) drug excretion
b) Describe the properties of DDT (DDT) and how it is eliminated from the body.
c) Define the following: i) drug i) drug metabolism ii) drug excretion
6. a) Define the following: i) drug i) drug metabolism ii) drug excretion
b) Describe the properties of DDT (DDT) and how it is eliminated from the body.
c) Define the following: i) drug i) drug metabolism ii) drug excretion
7. a) Define the following: i) drug i) drug metabolism ii) drug excretion
b) Describe the properties of DDT (DDT) and how it is eliminated from the body.
c) Define the following: i) drug i) drug metabolism ii) drug excretion
8. a) Define the following: i) drug i) drug metabolism ii) drug excretion
b) Describe the properties of DDT (DDT) and how it is eliminated from the body.
c) Define the following: i) drug i) drug metabolism ii) drug excretion



INDIAN NATIONAL

Ministry of Education, Government of India
New Delhi

Page No. _____

Subject: _____

Date: _____

Page No. _____

Dear Sir/Madam,

1. I am writing to inform you that the following information is being provided to you for your information:
 - (a) The following information is being provided to you for your information: _____
 - (b) The following information is being provided to you for your information: _____
 - (c) The following information is being provided to you for your information: _____
2. I am writing to inform you that the following information is being provided to you for your information:
 - (a) The following information is being provided to you for your information: _____
 - (b) The following information is being provided to you for your information: _____
 - (c) The following information is being provided to you for your information: _____
3. I am writing to inform you that the following information is being provided to you for your information:
 - (a) The following information is being provided to you for your information: _____
 - (b) The following information is being provided to you for your information: _____
 - (c) The following information is being provided to you for your information: _____
4. I am writing to inform you that the following information is being provided to you for your information:
 - (a) The following information is being provided to you for your information: _____
 - (b) The following information is being provided to you for your information: _____
 - (c) The following information is being provided to you for your information: _____
5. I am writing to inform you that the following information is being provided to you for your information:
 - (a) The following information is being provided to you for your information: _____
 - (b) The following information is being provided to you for your information: _____
 - (c) The following information is being provided to you for your information: _____
6. I am writing to inform you that the following information is being provided to you for your information:
 - (a) The following information is being provided to you for your information: _____
 - (b) The following information is being provided to you for your information: _____
 - (c) The following information is being provided to you for your information: _____
7. I am writing to inform you that the following information is being provided to you for your information:
 - (a) The following information is being provided to you for your information: _____
 - (b) The following information is being provided to you for your information: _____
 - (c) The following information is being provided to you for your information: _____
8. I am writing to inform you that the following information is being provided to you for your information:
 - (a) The following information is being provided to you for your information: _____
 - (b) The following information is being provided to you for your information: _____
 - (c) The following information is being provided to you for your information: _____



EXERCISE OF JURISDICTION

Date: / /

(To be filled by the student - Name: / Roll No: / Section: / Page: /)

EXERCISE OF JURISDICTION

Name: /

Roll No: /

Q.1. What is the meaning of Jurisdiction?

1. It is the power of the court to hear and decide the cases brought before it.
2. It is the power of the court to hear and decide the cases brought before it.
3. It is the power of the court to hear and decide the cases brought before it.
4. It is the power of the court to hear and decide the cases brought before it.
5. It is the power of the court to hear and decide the cases brought before it.
6. It is the power of the court to hear and decide the cases brought before it.
7. It is the power of the court to hear and decide the cases brought before it.
8. It is the power of the court to hear and decide the cases brought before it.
9. It is the power of the court to hear and decide the cases brought before it.
10. It is the power of the court to hear and decide the cases brought before it.
11. It is the power of the court to hear and decide the cases brought before it.
12. It is the power of the court to hear and decide the cases brought before it.
13. It is the power of the court to hear and decide the cases brought before it.
14. It is the power of the court to hear and decide the cases brought before it.
15. It is the power of the court to hear and decide the cases brought before it.
16. It is the power of the court to hear and decide the cases brought before it.
17. It is the power of the court to hear and decide the cases brought before it.
18. It is the power of the court to hear and decide the cases brought before it.
19. It is the power of the court to hear and decide the cases brought before it.
20. It is the power of the court to hear and decide the cases brought before it.



FACULTY OF PHARMACY

Pharmaceutical Sciences 2019-2020 Examination February 2020

Subject: Drug Delivery System

Time: 2 hours

Max: (60%) (30)

Note: (1) answer any five questions, all questions carry same marks

1. of There is a solid dose formulation of solid dose, its stability and its evaluation is given by the following:
2. There is a solid dose formulation of solid dose, its stability and its evaluation is given by the following:
3. There is a solid dose formulation of solid dose, its stability and its evaluation is given by the following:
4. There is a solid dose formulation of solid dose, its stability and its evaluation is given by the following:
5. There is a solid dose formulation of solid dose, its stability and its evaluation is given by the following:
6. There is a solid dose formulation of solid dose, its stability and its evaluation is given by the following:
7. There is a solid dose formulation of solid dose, its stability and its evaluation is given by the following:
8. There is a solid dose formulation of solid dose, its stability and its evaluation is given by the following:
9. There is a solid dose formulation of solid dose, its stability and its evaluation is given by the following:
10. There is a solid dose formulation of solid dose, its stability and its evaluation is given by the following:



UNIVERSITY OF THE SOUTH PACIFIC

Course No. TSPM01

Faculty of Business Administration and Economics (FBAE) School of Business Administration (SBA)

Course: Bachelor of Business Administration (BBA)

Year: 1st Year

Semester: 1st

Unit: Business Law and Ethics (BLLA)

1. Explain the concept of law and its sources.	10
2. Discuss the concept of contract law.	10
3. Explain the concept of tort law.	10
4. Discuss the concept of criminal law.	10
5. Explain the concept of intellectual property law.	10
6. Discuss the concept of consumer law.	10
7. Explain the concept of labour law.	10
8. Discuss the concept of environmental law.	10
9. Explain the concept of international law.	10
10. Discuss the concept of human rights law.	10

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