



Faculty of Pharmacy
University of Toronto

FACULTY OF PHARMACY

4. Planning (Pharmaceutical Industry) - Toronto PDE, MC & Planning Examination

June 2018

Self-Completion and Submission

Task (10%)	Mark (1)
1. The above drug is currently being sold in various sizes and forms.	
1. Identify the following:	20 Marks
a) Indicate the drug	
b) Indicate the manufacturer	
2. Identify the product and its uses	20 Marks
a) Indicate the product and its uses	
b) Indicate the product and its uses	
3. Indicate the product and its uses	20 Marks
a) Indicate the product and its uses	
b) Indicate the product and its uses	
4. Identify the product and its uses	20 Marks
a) Indicate the product and its uses	
b) Indicate the product and its uses	
5. Identify the product and its uses	20 Marks
a) Indicate the product and its uses	
b) Indicate the product and its uses	
6. Identify the product and its uses	20 Marks
a) Indicate the product and its uses	
b) Indicate the product and its uses	
7. Identify the product and its uses	20 Marks
a) Indicate the product and its uses	
b) Indicate the product and its uses	
8. Identify the product and its uses	20 Marks
a) Indicate the product and its uses	
b) Indicate the product and its uses	

Page 1 of 1



FACULTY OF ENGINEERING

is pleased to announce the following information regarding the upcoming examination

2024/2025

Subject: Engineering

Date: 15/05/2024

Page 1 of 1

Page 1 of 1

Below are the questions for the examination. All questions carry equal marks.

1. A ball is thrown vertically upwards with an initial velocity of 20 m/s. Calculate the maximum height reached by the ball. (10 marks)
2. A car starts from rest and accelerates uniformly to a speed of 30 m/s in 10 seconds. Calculate the distance travelled by the car during this time. (10 marks)
3. A block of mass 5 kg is pushed up a rough inclined plane of length 10 m to a height of 6 m. Calculate the work done by the pushing force. (10 marks)
4. A car of mass 1000 kg is moving at a speed of 20 m/s. Calculate its kinetic energy. (5 marks)
5. A ball is thrown vertically upwards with an initial velocity of 20 m/s. Calculate the time taken for the ball to reach its maximum height. (5 marks)
6. A car starts from rest and accelerates uniformly to a speed of 30 m/s in 10 seconds. Calculate the acceleration of the car. (5 marks)
7. A block of mass 5 kg is pushed up a rough inclined plane of length 10 m to a height of 6 m. Calculate the work done by the gravitational force. (5 marks)
8. A car of mass 1000 kg is moving at a speed of 20 m/s. Calculate its momentum. (5 marks)



Page No: F-000001

FACULTY OF PHARMACY

60 Pharmacy (Pharm. Sci) 11 Semestr (PSC) Part A (Theory) Question
Year 2023

Subject: Advanced Pharmaceutical English

Page: 2 No: 4

Max. Marks: 10

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

1.
 - a) Explain the categories of OTCs. How are they classified? Give two examples. What are the important points to be considered while selecting OTCs? (4 marks)
 - b) Explain the process of formulating parenteral products. (4 marks)
2.
 - a) Explain the importance of aseptic technique in the preparation of parenteral products. (4 marks)
 - b) Explain the OTC guidelines for selection of drugs. (4 marks)
3.
 - a) What are the important steps in drug selection? (4 marks)
 - b) Explain the effects of drug selection on the quality of the product. (4 marks)
4.
 - a) Explain the importance of drug selection in the selection of drugs. (4 marks)
 - b) Explain the effects of drug selection on the quality of the product. (4 marks)
5.
 - a) Explain the importance of drug selection in the selection of drugs. (4 marks)
 - b) Explain the effects of drug selection on the quality of the product. (4 marks)
6.
 - a) Explain the importance of drug selection in the selection of drugs. (4 marks)
 - b) Explain the effects of drug selection on the quality of the product. (4 marks)
7.
 - a) Explain the importance of drug selection in the selection of drugs. (4 marks)
 - b) Explain the effects of drug selection on the quality of the product. (4 marks)
8.
 - a) Explain the importance of drug selection in the selection of drugs. (4 marks)
 - b) Explain the effects of drug selection on the quality of the product. (4 marks)



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FACULTY OF HEALTH SCIENCES

6. Health Sciences – Bachelor of Health Sciences (BSc HSc)
 Health Sciences – Bachelor of Health Sciences (BSc HSc)
 (Semester 4)

Page 4 of 10

Page 4 of 10

6. Health Sciences – Bachelor of Health Sciences (BSc HSc)

1. 1. The following questions are to be answered in the form of a short answer question (SAQ) (10 marks)
 - a. 1.1. The following questions are to be answered in the form of a short answer question (SAQ) (10 marks)
 - b. 1.2. The following questions are to be answered in the form of a short answer question (SAQ) (10 marks)
2. 2. The following questions are to be answered in the form of a short answer question (SAQ) (10 marks)
 - a. 2.1. The following questions are to be answered in the form of a short answer question (SAQ) (10 marks)
 - b. 2.2. The following questions are to be answered in the form of a short answer question (SAQ) (10 marks)
3. 3. The following questions are to be answered in the form of a short answer question (SAQ) (10 marks)
 - a. 3.1. The following questions are to be answered in the form of a short answer question (SAQ) (10 marks)
 - b. 3.2. The following questions are to be answered in the form of a short answer question (SAQ) (10 marks)
4. 4. The following questions are to be answered in the form of a short answer question (SAQ) (10 marks)
 - a. 4.1. The following questions are to be answered in the form of a short answer question (SAQ) (10 marks)
 - b. 4.2. The following questions are to be answered in the form of a short answer question (SAQ) (10 marks)
5. 5. The following questions are to be answered in the form of a short answer question (SAQ) (10 marks)
 - a. 5.1. The following questions are to be answered in the form of a short answer question (SAQ) (10 marks)
 - b. 5.2. The following questions are to be answered in the form of a short answer question (SAQ) (10 marks)
6. 6. The following questions are to be answered in the form of a short answer question (SAQ) (10 marks)
 - a. 6.1. The following questions are to be answered in the form of a short answer question (SAQ) (10 marks)
 - b. 6.2. The following questions are to be answered in the form of a short answer question (SAQ) (10 marks)
7. 7. The following questions are to be answered in the form of a short answer question (SAQ) (10 marks)
 - a. 7.1. The following questions are to be answered in the form of a short answer question (SAQ) (10 marks)
 - b. 7.2. The following questions are to be answered in the form of a short answer question (SAQ) (10 marks)
8. 8. The following questions are to be answered in the form of a short answer question (SAQ) (10 marks)
 - a. 8.1. The following questions are to be answered in the form of a short answer question (SAQ) (10 marks)
 - b. 8.2. The following questions are to be answered in the form of a short answer question (SAQ) (10 marks)
9. 9. The following questions are to be answered in the form of a short answer question (SAQ) (10 marks)
 - a. 9.1. The following questions are to be answered in the form of a short answer question (SAQ) (10 marks)
 - b. 9.2. The following questions are to be answered in the form of a short answer question (SAQ) (10 marks)
10. 10. The following questions are to be answered in the form of a short answer question (SAQ) (10 marks)
 - a. 10.1. The following questions are to be answered in the form of a short answer question (SAQ) (10 marks)
 - b. 10.2. The following questions are to be answered in the form of a short answer question (SAQ) (10 marks)



FACULTY OF ENGINEERING

M. Sc. (Mechanical Engineering) / B. Sc. (Mechanical Engineering) / B. Sc. (Building Engineering)
June 2008

Subject: Fluid Mechanics

Time: 1 hour

Max. Marks: 10

Write answers for the questions. All questions carry equal marks.

1. Define stagnation point. How is the pressure at this point related to the static pressure?
2. Explain the difference between static and dynamic pressure. When can we neglect the dynamic pressure? Give an example of a situation where this is not the case.
3. Define the coefficient of discharge. How is it related to the coefficient of contraction?
4. Define the discharge coefficient. How is it related to the coefficient of contraction?
5. Define the coefficient of velocity. How is it related to the coefficient of contraction?
6. Define the coefficient of contraction. How is it related to the coefficient of velocity?
7. Define the coefficient of contraction. How is it related to the coefficient of velocity?
8. Define the coefficient of contraction. How is it related to the coefficient of velocity?
9. Define the coefficient of contraction. How is it related to the coefficient of velocity?
10. Define the coefficient of contraction. How is it related to the coefficient of velocity?



MINISTRY OF EDUCATION

Department of Higher Education, Government of India

Ministry of Education, Government of India

Page No. _____

Page No. _____

Subject: _____

1. The Ministry of Education, Government of India, is pleased to inform that the following information is being provided for your reference: _____

2. The Ministry of Education, Government of India, is pleased to inform that the following information is being provided for your reference: _____

3. The Ministry of Education, Government of India, is pleased to inform that the following information is being provided for your reference: _____

4. The Ministry of Education, Government of India, is pleased to inform that the following information is being provided for your reference: _____

5. The Ministry of Education, Government of India, is pleased to inform that the following information is being provided for your reference: _____

6. The Ministry of Education, Government of India, is pleased to inform that the following information is being provided for your reference: _____

7. The Ministry of Education, Government of India, is pleased to inform that the following information is being provided for your reference: _____

8. The Ministry of Education, Government of India, is pleased to inform that the following information is being provided for your reference: _____



SCHOOL OF PHARMACY

A Pharmacy Degree, designed to meet all the requirements for the Registration Examination

June 2020

Subject: Pharmaceutical Chemistry

Student ID: 12345678

Time Allowed: 2 hours

Examination (1)

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

1. A pharmaceutical company has developed a new drug to treat patients with hypertension. The drug is a diuretic and is expected to be effective in treating hypertension. The drug is a diuretic and is expected to be effective in treating hypertension. 10
2. The drug is a diuretic and is expected to be effective in treating hypertension. The drug is a diuretic and is expected to be effective in treating hypertension. 10
3. The drug is a diuretic and is expected to be effective in treating hypertension. The drug is a diuretic and is expected to be effective in treating hypertension. 10
4. The drug is a diuretic and is expected to be effective in treating hypertension. The drug is a diuretic and is expected to be effective in treating hypertension. 10
5. The drug is a diuretic and is expected to be effective in treating hypertension. The drug is a diuretic and is expected to be effective in treating hypertension. 10
6. The drug is a diuretic and is expected to be effective in treating hypertension. The drug is a diuretic and is expected to be effective in treating hypertension. 10
7. The drug is a diuretic and is expected to be effective in treating hypertension. The drug is a diuretic and is expected to be effective in treating hypertension. 10
8. The drug is a diuretic and is expected to be effective in treating hypertension. The drug is a diuretic and is expected to be effective in treating hypertension. 10



Page No. : 00000000

FILE NO. 1935-PH/MH/CP

At: Ministry of Health and Family Welfare, Government of India,

November 2021

Subject: Drug Delivery System

Date : 11/11/21

Page No. : 00000000

NOTE: Answer the questions in 100 words or less.

1. a) What is the role of pharmaceutical industry in India?
b) Policy measures to support pharmaceutical industry in India?
2. a) What are the major pharmaceutical companies in India?
b) Policy measures to support pharmaceutical industry in India?
3. a) What are the major pharmaceutical companies in India?
b) Policy measures to support pharmaceutical industry in India?
4. a) What are the major pharmaceutical companies in India?
b) Policy measures to support pharmaceutical industry in India?
5. a) What are the major pharmaceutical companies in India?
b) Policy measures to support pharmaceutical industry in India?
6. a) What are the major pharmaceutical companies in India?
b) Policy measures to support pharmaceutical industry in India?
7. a) What are the major pharmaceutical companies in India?
b) Policy measures to support pharmaceutical industry in India?
8. a) What are the major pharmaceutical companies in India?
b) Policy measures to support pharmaceutical industry in India?
9. a) What are the major pharmaceutical companies in India?
b) Policy measures to support pharmaceutical industry in India?
10. a) What are the major pharmaceutical companies in India?
b) Policy measures to support pharmaceutical industry in India?



PHARMACY PHARMACEUTICS

B. Pharmacy (Pharmaceutics) - Semester IV (2022)

2022-2023

Subject: B. Pharmacy (Pharmaceutics)

Time: 3 hours

Marks: 100

Write answers for the questions. 20 questions carry equal marks.

1. (a) List the various methods of drug dosage form evaluation and mention any three methods of each with examples? 10
2. (a) Explain the CD guidelines for the evaluation of a new drug product with an example? 10
(b) Write short notes on the following: 10
3. (a) Explain the various methods of drug evaluation and mention any three methods? 10
(b) Describe the various methods of drug evaluation with an example? 10
4. (a) Explain the various methods of drug evaluation and mention any three methods? 10
(b) Describe the various methods of drug evaluation with an example? 10
5. (a) Explain the various methods of drug evaluation and mention any three methods? 10
(b) Describe the various methods of drug evaluation with an example? 10
6. (a) Explain the various methods of drug evaluation and mention any three methods? 10
(b) Describe the various methods of drug evaluation with an example? 10
7. (a) Explain the various methods of drug evaluation and mention any three methods? 10
(b) Describe the various methods of drug evaluation with an example? 10
8. (a) Explain the various methods of drug evaluation and mention any three methods? 10
(b) Describe the various methods of drug evaluation with an example? 10



FACULTY DEPARTMENT

of research projects and research only projects of research

November 2021

Subject: Regulatory Affairs

Course: BSc (Hons) in

Time: 2 hours

Max. Marks: 75

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

1. a) Explain the difference between the following:
i) Phase I and Phase II clinical trials. (10)
2. a) Explain the regulatory requirements for approval of AT-
b) What are the main regulatory requirements for a clinical trial in the UK? (10)
3. a) Explain the regulatory requirements for approval of AT-
b) What are the main regulatory requirements for a clinical trial in the UK? (10)
4. a) Explain the regulatory requirements for approval of AT-
b) What are the main regulatory requirements for a clinical trial in the UK? (10)
5. a) Explain the regulatory requirements for approval of AT-
b) What are the main regulatory requirements for a clinical trial in the UK? (10)
6. a) Explain the regulatory requirements for approval of AT-
b) What are the main regulatory requirements for a clinical trial in the UK? (10)
7. a) Explain the regulatory requirements for approval of AT-
b) What are the main regulatory requirements for a clinical trial in the UK? (10)
8. a) Explain the regulatory requirements for approval of AT-
b) What are the main regulatory requirements for a clinical trial in the UK? (10)
9. a) Explain the regulatory requirements for approval of AT-
b) What are the main regulatory requirements for a clinical trial in the UK? (10)
10. a) Explain the regulatory requirements for approval of AT-
b) What are the main regulatory requirements for a clinical trial in the UK? (10)



2020-21-0-222044

UNIVERSITY OF BIRMINGHAM

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

Year 3/3

Subject: Drug Delivery Systems

This is from

Page 1 of 11

Indicate any lost questions.

1/1/2021, 11:00 AM

1. Define a sustained release and describe various drug delivery systems. What are the advantages and disadvantages of a sustained release system?
2. Discuss the advantages and disadvantages of various drug delivery systems.
3. a) Explain the mechanism of action of a drug.
b) Discuss the advantages and disadvantages of various drug delivery systems.
4. a) What are the advantages and disadvantages of a drug delivery system?
b) Discuss the advantages and disadvantages of various drug delivery systems.
5. a) Discuss the advantages and disadvantages of a drug delivery system.
b) Discuss the advantages and disadvantages of various drug delivery systems.
6. What are the advantages and disadvantages of a drug delivery system? Discuss the advantages and disadvantages of various drug delivery systems.
7. a) Discuss the advantages and disadvantages of a drug delivery system.
b) Discuss the advantages and disadvantages of various drug delivery systems.
8. What are the advantages and disadvantages of a drug delivery system? Discuss the advantages and disadvantages of various drug delivery systems.
9. a) Discuss the advantages and disadvantages of a drug delivery system.
b) Discuss the advantages and disadvantages of various drug delivery systems.



COM NO 9/2020/93

FACULTY OF PHARMACY

B. Pharmacy (Pharmaceuticals) 1st Semester (2020) 2nd Study Evaluation
May 2021

Subject: Antibiotic Pharmacology

1st Part: 2 Hours

2nd Part: 2 Hours

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

2020-2021

1. a) Discuss the principles and mechanism of action of β -lactams.
b) Discuss the distribution of penicillin G.
2. a) Discuss the efficacy of penicillin G in the treatment of β -hemolytic streptococcal infection.
b) Discuss the use of penicillin G in the treatment of syphilis.
3. a) Discuss the use of penicillin G in the treatment of syphilis.
b) Discuss the use of penicillin G in the treatment of syphilis.
4. a) Discuss the use of penicillin G in the treatment of syphilis.
b) Discuss the use of penicillin G in the treatment of syphilis.
5. a) Discuss the use of penicillin G in the treatment of syphilis.
b) Discuss the use of penicillin G in the treatment of syphilis.
6. a) Discuss the use of penicillin G in the treatment of syphilis.
b) Discuss the use of penicillin G in the treatment of syphilis.
7. a) Discuss the use of penicillin G in the treatment of syphilis.
b) Discuss the use of penicillin G in the treatment of syphilis.
8. a) Discuss the use of penicillin G in the treatment of syphilis.
b) Discuss the use of penicillin G in the treatment of syphilis.
9. a) Discuss the use of penicillin G in the treatment of syphilis.
b) Discuss the use of penicillin G in the treatment of syphilis.



2018-2019

PHARMACY DEPARTMENT

Pharmacy, Pharmacology & Science (P3) Advanced Standing Examination

May 2018

General Regulations

TIME ALLOWED:

MAX. MARKS: 110

Write short answer type questions. Use diagrams & Carry forward marks

1. a. Define the term 'Pharmacokinetics' (2 marks)
- b. Define the term 'Pharmacodynamics' (2 marks)
2. a. Explain the role of the liver in drug metabolism (4 marks)
- b. Define the term 'First-pass effect' (2 marks)
3. a. Define the term 'Bioavailability' (2 marks)
- b. Define the term 'Half-life' (2 marks)
4. a. Define the term 'Therapeutic index' (2 marks)
- b. Define the term 'Toxicity' (2 marks)
5. a. Define the term 'Pharmacokinetics' (2 marks)
- b. Define the term 'Pharmacodynamics' (2 marks)
6. a. Define the term 'Pharmacokinetics' (2 marks)
- b. Define the term 'Pharmacodynamics' (2 marks)
7. a. Define the term 'Pharmacokinetics' (2 marks)
- b. Define the term 'Pharmacodynamics' (2 marks)
8. a. Define the term 'Pharmacokinetics' (2 marks)
- b. Define the term 'Pharmacodynamics' (2 marks)



FACULTY OF ENGINEERING

B. Pharmacy (Intermediate) - Semester PCB (Examination)
January 2021

Subject: Robot Biomechanical Analysis Techniques

Time: 1 hour

Max. Marks: 75

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

1. (a) What is a kinematic degree of freedom?
(b) What are kinematic joints?
(c) What are kinematic joints?
(d) What are kinematic joints?
2. (a) Define the kinematic chain.
(b) What are the kinematic joints?
(c) What are the kinematic joints?
(d) What are the kinematic joints?
3. (a) Define the kinematic chain.
(b) What are the kinematic joints?
(c) What are the kinematic joints?
(d) What are the kinematic joints?
4. (a) Define the kinematic chain.
(b) What are the kinematic joints?
(c) What are the kinematic joints?
(d) What are the kinematic joints?
5. (a) Define the kinematic chain.
(b) What are the kinematic joints?
(c) What are the kinematic joints?
(d) What are the kinematic joints?
6. (a) Define the kinematic chain.
(b) What are the kinematic joints?
(c) What are the kinematic joints?
(d) What are the kinematic joints?
7. (a) Define the kinematic chain.
(b) What are the kinematic joints?
(c) What are the kinematic joints?
(d) What are the kinematic joints?
8. (a) Define the kinematic chain.
(b) What are the kinematic joints?
(c) What are the kinematic joints?
(d) What are the kinematic joints?



CODE NO: P-28604/22

UNIVERSITY OF PHARMACY
8. Pharmacy (Pharmaceutics) Semester: IV (2) Pharmacokinetics
140008/2022

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 of drug delivery system?
(b) Define the term "drug delivery system".
2. **(a)** Explain the concept of drug delivery system.
(b) Define the term "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) Define the term "drug delivery system".
5. **(a)** Explain the concept of drug delivery system.
(b) Define the term "drug delivery system".
6. **(a)** Explain the concept of drug delivery system.
(b) Define the term "drug delivery system".
7. **(a)** Explain the concept of drug delivery system.
(b) Define the term "drug delivery system".
8. **(a)** Explain the concept of drug delivery system.
(b) Define the term "drug delivery system".



FACULTY OF PHARMACY

B. Pharmacy (Pharmaceutics) - January ACS (Exempt) Examination
Exemption 1,20

Subject: Regulatory Affairs

Time: 2 hours

Max. Marks: 70

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

- (a) Define the following pharmaceutical and Management related terms
(b) Write a note on patent drug product development
- (a) Define the regulatory requirements for importation of foreign drug
(b) What is the impact of marketing Classification of Pharmaceutical products on Central Research Organisation (CRO)
- (a) Explain the difference between generic and generic drug products
(b) Explain the regulatory relationship between UK and USA for drug products
- (a) Explain the role of regulatory agencies in drug product development
(b) Write a note on Regulatory Science and its applications
- Explain the regulatory requirements for drug TCM
- Discuss about
(a) generic drugs
(b) generic drugs development and its regulatory aspects
- Explain the role of regulatory agencies in drug product development
(a) Define the role of regulatory agencies in drug product development
(b) Define the role of regulatory agencies in drug product development
- Explain the role of regulatory agencies in drug product development
(a) Define the role of regulatory agencies in drug product development
(b) Define the role of regulatory agencies in drug product development



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科通公司(香港)有限公司 謹啟

N. Prunty - Interim Director of the POI unit & During summer of 2010

Agent: Robert Williams, aka Justice Trenchard

1999-2000

has been 100

Keywords: child sexual abuse; disclosure; self-blame

2014-5-2004

1. a) Plot cost curve from 2000 to 2014. Are there any significant fluctuations?

b) Explain the period of development, stagnation, and decline with suitable examples.
1. a) Explain the development of ITI with a suitable diagram. Add a note on the development of ITI.

b) Explain the 'cluster' strategy in IT.
2. a) Plot the growth of ITI Export. Give suitable reasons.

b) Plot the ITI Export Index. Add the name of January.
4. Plot the significance of digital India. What are the factors affecting a country's digital India? Give suitable examples and justify with the number of countries in the world.
5. Plot the growth of ITI. Give suitable reasons. Add a note on the development of ITI.
6. a) Explain the development of ITI. Give suitable reasons.

b) Explain the development of ITI. Give suitable reasons.
7. a) Explain the growth of ITI. Give suitable reasons.

b) Explain the growth of ITI. Give suitable reasons.
8. a) Explain the development of ITI. Give suitable reasons.

b) Explain the development of ITI. Give suitable reasons.



Page no. 00000-00

FACULTY OF PHARMACY

8, Jalan Mayang, Panchor, Melaka 76100 (PO) (Date & Faculty Commission)
May 2022

Subject: Regulatory affairs

Title: Essay

Date: March 21

Topic: Answer the key questions

12/12/2022 (Date)

1. List 5 types of pharmaceutical products.
a) Pharmaceutical products: Pharmaceuticals
2. Define TGA, its functions and role in the pharmaceutical industry.
3. Describe the regulatory process for a new drug.
4. List 5 types of pharmaceutical products.
a) Define: 20, 20, 20, 20, 20
5. List 5 types of pharmaceutical products.
a) Define: 20, 20, 20, 20, 20
6. List 5 types of pharmaceutical products.
a) Define: 20, 20, 20, 20, 20
7. List 5 types of pharmaceutical products.
a) Define: 20, 20, 20, 20, 20
8. List 5 types of pharmaceutical products.
a) Define: 20, 20, 20, 20, 20



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FACULTY OF PHARMACY

8. Pharmacy Pharmacology - Jordan POI and Safety Evaluation
day 120

Subject: Human Pharmacology

Time: 3 hours

Date: March 21

Topic: Pharmacokinetics

2019/2020

1. (a) Draw the concentration of drug blood level curve
(b) Describe the elimination of a drug from the body
2. (a) Draw the PK of a drug for a patient with a renal impairment
(b) Describe the PK of a drug for a patient with a renal impairment
3. (a) Effect of age on drug metabolism and excretion
(b) Effect of age on drug metabolism and excretion
4. (a) Effect of liver disease on drug metabolism
(b) Effect of liver disease on drug metabolism
5. (a) Effect of liver disease on drug metabolism
(b) Effect of liver disease on drug metabolism
6. (a) Effect of liver disease on drug metabolism
(b) Effect of liver disease on drug metabolism
7. (a) Effect of liver disease on drug metabolism
(b) Effect of liver disease on drug metabolism
8. (a) Effect of liver disease on drug metabolism
(b) Effect of liver disease on drug metabolism



10/04/2022 10:00

FACULTY OF PHARMACY

B. Pharmacy (Particulates) – January 2022 Exam & Session

Examination May 2022

Subject: Drug Delivery Systems

Time: 1 hour

Max Marks: 50

Note: Answer any five questions

(10 x 5 = 50 Marks)

1. (a) What are the different types of parenteral formulations? (10 marks)
- (b) Define the term 'parenteral' and give an example of a parenteral formulation. (10 marks)
2. (a) What is the purpose of a parenteral formulation? (10 marks)
- (b) Give an example of a parenteral formulation. (10 marks)
3. (a) What is the purpose of a parenteral formulation? (10 marks)
- (b) Give an example of a parenteral formulation. (10 marks)
4. (a) What are the different types of parenteral formulations? (10 marks)
- (b) Give an example of a parenteral formulation. (10 marks)
5. Give an example of a parenteral formulation. (10 marks)
6. Give an example of a parenteral formulation. (10 marks)
7. (a) What are the different types of parenteral formulations? (10 marks)
- (b) Give an example of a parenteral formulation. (10 marks)
8. (a) What are the different types of parenteral formulations? (10 marks)
- (b) Give an example of a parenteral formulation. (10 marks)

FACULTY OF PHARMACY

B. Pharmacy I Semester / CB (Open Elective-I) / Sem-I/2021
(COMMON TO ALL)

Subject: Modern Pharmaceutics & Analytical Technology

Total 2 marks

Time: 10 min

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

(10 Marks)

1. a) Draw and explain flow chart for the use of Add a type of microcapsule in the formulation of a tablet.
b) Explain the mechanism of action of a microcapsule.
2. a) Explain the principle and mechanism of action of a microcapsule.
b) Explain the various advantages of microcapsules.
c) Explain the major differences between microcapsules and microemulsions.
3. a) Explain the principle of Transdermal Drug Delivery system and its advantages.
b) Explain the various advantages of microcapsules.
4. a) Explain the principle and mechanism of action of a microcapsule.
b) Explain the various advantages of microcapsules.
5. a) Explain the principle and mechanism of action of a microcapsule.
b) Explain the various advantages of microcapsules.
6. a) Explain the principle and mechanism of action of a microcapsule.
b) Explain the various advantages of microcapsules.
7. a) Explain the principle and mechanism of action of a microcapsule.
b) Explain the various advantages of microcapsules.
8. a) Explain the principle and mechanism of action of a microcapsule.
b) Explain the various advantages of microcapsules.

FACTS OF PRINCIPAL

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ENTER TO WIN

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FACTORY WORKERS

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Abstract Background

Abstract

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only about 10% of the population. All quantitative research methods

CONCLUSIONS

- a) Plot a graph: Yield (%) versus ΔT
b) What is the rate of DDT synthesis?
- c) Draw a graph: Equilibrium constant versus ΔT
- d) What are the equilibrium constants for reaction of DDT
- e) Calculate the required of DDT synthesis at a temperature of 100°C
a) Find the equilibrium constant
- f) Equilibrium constant, temperature of reaction of DDT
- g) Equilibrium constant
a) Calculation of equilibrium constant at 100°C
b) The equilibrium constant for reaction of DDT
- h) Plot a graph: Yield (%) versus ΔT
i) Plot a graph: Yield (%) versus ΔT
j) Plot a graph: Yield (%) versus ΔT
k) Plot a graph: Yield (%) versus ΔT
l) Plot a graph: Yield (%) versus ΔT
m) Plot a graph: Yield (%) versus ΔT
n) Plot a graph: Yield (%) versus ΔT
o) Plot a graph: Yield (%) versus ΔT
p) Plot a graph: Yield (%) versus ΔT
q) Plot a graph: Yield (%) versus ΔT
r) Plot a graph: Yield (%) versus ΔT
s) Plot a graph: Yield (%) versus ΔT
t) Plot a graph: Yield (%) versus ΔT
u) Plot a graph: Yield (%) versus ΔT
v) Plot a graph: Yield (%) versus ΔT
w) Plot a graph: Yield (%) versus ΔT
x) Plot a graph: Yield (%) versus ΔT
y) Plot a graph: Yield (%) versus ΔT
z) Plot a graph: Yield (%) versus ΔT



INSTITUTE OF PHARMACY
Malaysia: Institute of Pharmacy Examination, 2020
PHARM 31121

Local, Modern Pharmacology / Herbal Technology

Time: 2 Hours

Max. Marks: 40

Write answers giving full details for the following questions

3 x 10 = 30 Marks

1. (a) Why is a standard drug used in pharmacokinetic studies?
(b) Briefly explain the various factors affecting drug absorption.
2. (a) Explain the various methods of drug administration.
(b) Discuss the various methods of drug administration.
3. (a) Explain the various methods of drug administration.
(b) Discuss the various methods of drug administration.
4. (a) Explain the various methods of drug administration.
(b) Discuss the various methods of drug administration.
5. (a) Explain the various methods of drug administration.
(b) Discuss the various methods of drug administration.
6. (a) Explain the various methods of drug administration.
(b) Discuss the various methods of drug administration.
7. (a) Explain the various methods of drug administration.
(b) Discuss the various methods of drug administration.
8. (a) Explain the various methods of drug administration.
(b) Discuss the various methods of drug administration.



**Leadership Development: Leadership for a changing environment
2021**

Assignment brief

Time: 2 hours

Max. marks: 10

Write answers to all the following questions

2 x 25 = 50 marks

1. a) Define strategic vision. Discuss how a controlled strategic vision system works.
b) Explain the importance of good leadership in vision.
2. a) Explain how vision influences strategy. Explain how a vision system works.
b) What are the challenges of developing a vision system? Explain how a vision system works.
3. a) Explain the role of vision in strategic management. Explain how a vision system works.
b) What are the challenges of developing a vision system? Explain how a vision system works.
4. a) Explain the importance of vision in strategic management. Explain how a vision system works.
b) What are the challenges of developing a vision system? Explain how a vision system works.
5. a) Explain the importance of vision in strategic management. Explain how a vision system works.
b) What are the challenges of developing a vision system? Explain how a vision system works.
6. a) Explain the importance of vision in strategic management. Explain how a vision system works.
b) What are the challenges of developing a vision system? Explain how a vision system works.
7. a) Explain the importance of vision in strategic management. Explain how a vision system works.
b) What are the challenges of developing a vision system? Explain how a vision system works.
8. a) Explain the importance of vision in strategic management. Explain how a vision system works.
b) What are the challenges of developing a vision system? Explain how a vision system works.



Section 1: Multiple Choice Questions
Answer the following questions by selecting the correct option.

Section 2: Short Answer Questions

Time: 2 hours

Max. Marks: 70

Write answers for the following questions.

2 x 35 = 70 Marks

1. (a) Explain the importance of the following:

(i) Explain the importance of the following:

(ii) Explain the importance of the following:
2. (a) Explain the importance of the following:

(i) Explain the importance of the following:

(ii) Explain the importance of the following:
3. (a) Explain the importance of the following:

(i) Explain the importance of the following:

(ii) Explain the importance of the following:
4. (a) Explain the importance of the following:

(i) Explain the importance of the following:

(ii) Explain the importance of the following:
5. (a) Explain the importance of the following:

(i) Explain the importance of the following:

(ii) Explain the importance of the following:
6. (a) Explain the importance of the following:

(i) Explain the importance of the following:

(ii) Explain the importance of the following:
7. (a) Explain the importance of the following:

(i) Explain the importance of the following:

(ii) Explain the importance of the following:
8. (a) Explain the importance of the following:

(i) Explain the importance of the following:

(ii) Explain the importance of the following:
9. (a) Explain the importance of the following:

(i) Explain the importance of the following:

(ii) Explain the importance of the following:
10. (a) Explain the importance of the following:

(i) Explain the importance of the following:

(ii) Explain the importance of the following:



Abstract

Related Research

Course 2: 2000

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, 2676, 2677, 2678, 2679, 2680, 26

Mark: _____

1. a) Supply of TV sets is inelastic in the short run.
b) A large price increase would be expected.
2. a) In the long run, the elasticity of demand for automobiles is more elastic than in the short run.
b) When the price of a new car falls, the quantity demanded increases by a larger percentage than the percentage decrease in price.
3. a) Supply of labor is inelastic in the short run.
b) An increase in the price of labor (wage) would be expected to increase the quantity demanded by a smaller percentage than the percentage increase in price.
4. a) Elasticity
b) Elasticity of demand for labor is high.
c) Elasticity of demand for labor is low.
5. a) Supply of labor is inelastic in the short run.
b) A large price increase would be expected.
6. a) Elasticity
b) Elasticity of demand for labor is high.
c) Elasticity of demand for labor is low.
7. a) Elasticity
b) Elasticity of demand for labor is high.
c) Elasticity of demand for labor is low.
8. a) Elasticity
b) Elasticity of demand for labor is high.
c) Elasticity of demand for labor is low.
9. a) Elasticity
b) Elasticity of demand for labor is high.
c) Elasticity of demand for labor is low.



MINISTRY OF HEALTH

Form No. 100/100

General instructions for the use of the form (100/100)

Formulation (100/100)

General instructions for the use of the form (100/100)

Form No.

Form No. 100/100

Form No. 100/100

Form No. 100/100

Form No. 100/100

Form No. 100/100

Form No. 100/100

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Form No. 100/100

Form No. 100/100

Form No. 100/100

Form No. 100/100

Form No. 100/100

Form No. 100/100

Form No. 100/100



CODE NO. 800910

NATIONAL EXAMINATION

Senior (pharmacist) / Assistant (PO) / Supt. Examination
(October 2021)

Subject: Drug Delivery System

Time: 2 hrs

Roll No. / ID

Ques. 23-26 are compulsory

DATE: 23/10/2021

1. Explain with neat diagram a drug delivery system and its components. (10 marks)
2. What is the role of a pharmacist in a drug delivery system? (10 marks)
3. Explain the role of a pharmacist in a drug delivery system. (10 marks)
4. a) Name the different types of drug delivery systems.
b) Describe the role of a pharmacist in a drug delivery system. (10 marks)
5. a) Describe the role of a pharmacist in a drug delivery system.
b) Explain the role of a pharmacist in a drug delivery system. (10 marks)
6. a) Describe the role of a pharmacist in a drug delivery system.
b) Explain the role of a pharmacist in a drug delivery system. (10 marks)
7. a) Describe the role of a pharmacist in a drug delivery system.
b) Explain the role of a pharmacist in a drug delivery system. (10 marks)
8. a) Describe the role of a pharmacist in a drug delivery system.
b) Explain the role of a pharmacist in a drug delivery system. (10 marks)



FACULTY OF ENGINEERING

IN ENGINEERING PRELIMINARY & BSc (Hons) DEGREE (APP) 1

Examination: Semester 2002

Subject: Thermodynamics

TIME: 2 hours

DATE: 2002/10/10

NOTE: Answer any three questions.

22/07/2002/10

1. Explain the concept of a thermodynamic system and its surroundings.
2. Discuss the difference between a closed system and an open system.
3. Explain the concept of a control volume and its application in engineering.
4. Discuss the First Law of Thermodynamics and its application in engineering.
5. Discuss the Second Law of Thermodynamics and its application in engineering.
6. a. Explain the concept of a thermodynamic process.
b. Discuss the isothermal and adiabatic processes.
7. a. Discuss the concept of a thermodynamic cycle and its application in engineering.
b. Explain the Carnot cycle and its efficiency.
8. a. Explain the concept of a thermodynamic property and its application in engineering.
b. Discuss the internal energy and enthalpy of a system.



UNIVERSITY OF PHARMACY

Pharmaceuticals - General (PG) (M) & Delivery Examination
February 2024

Subject: Drug Delivery System

Time: 200

Total Marks: 75

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

1. Define pharmaceutical and mention its importance in designing DR delivery system. (10)
2. Define drug delivery system and mention its importance in drug delivery system. (10)
3. Define drug delivery system and mention its importance in drug delivery system. (10)
4. Define drug delivery system and mention its importance in drug delivery system. (10)
5. Define drug delivery system and mention its importance in drug delivery system. (10)
6. Define drug delivery system and mention its importance in drug delivery system. (10)
7. Define drug delivery system and mention its importance in drug delivery system. (10)
8. Define drug delivery system and mention its importance in drug delivery system. (10)



Date: 10/1/2020

FACULTY OF PHARMACY

Pharmacy (Pharmaceuticals) - Semester I PG (Basic & Clinical) Curriculum
January 2020

Subject: Toxicology (1000)

Time: 2 hours

Max. score: 40

Note: Answer any Five Questions. All questions carry Equal Marks

1. a) Define acute vs. chronic toxicity (20 marks) (10)
b) Define LD50 and explain its use (10)
2. Define MCL and explain its use (10)
3. What is the regulatory authority in Jordan? (10)
4. a) Explain the function of WHO Commission on drug monitoring (5)
b) Define ADR (5)
5. Explain the steps in management of TAE (10)
6. Critical care:
a) What is the meaning of ADR (5)
b) Give two drugs related to poison (5)
7. Name two drugs:
a) PPIs (5)
b) Fluoroquinolones (5)
8. Name two drugs:
a) Anticancer (5)
b) CNS depressant (5)

Page 1 of 1



Date: 10/10/2020

MINISTRY OF HEALTH

For Pharmaceutical Formulation (PC) and Bulk Drug Distribution
January 2020

Subject: General Pharmacology

Time: 2 Hours

Max. Marks: 100

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

1. a) Draw the structure of the drug of choice for the treatment of hypertension.
b) Write the mechanism of action of the drug of choice. (10)
2. a) Draw the structure of the drug of choice for the treatment of asthma.
b) Write the mechanism of action of the drug of choice. (10)
3. a) Draw the structure of the drug of choice for the treatment of diabetes mellitus.
b) Write the mechanism of action of the drug of choice. (10)
4. a) Draw the structure of the drug of choice for the treatment of cancer.
b) Write the mechanism of action of the drug of choice. (10)
5. a) Draw the structure of the drug of choice for the treatment of infection.
b) Write the mechanism of action of the drug of choice. (10)
6. a) Draw the structure of the drug of choice for the treatment of pain.
b) Write the mechanism of action of the drug of choice. (10)
7. a) Draw the structure of the drug of choice for the treatment of fever.
b) Write the mechanism of action of the drug of choice. (10)
8. a) Draw the structure of the drug of choice for the treatment of allergy.
b) Write the mechanism of action of the drug of choice. (10)



FACULTY OF PHARMACY

Admission page for all the admitted students (PCN Supply)
Examination, August 2019

Subject: Modern Pharmaceutical Analysis Techniques

Time: 2 hours

Total marks: 50

Only answer by the questions. All questions carry equal marks.

1. a. Write four (4) IET as analytical instruments. 4
- b. All the analytical methods in question analysis by an analytical instrument. 4
Describe the method in brief.
2. a. Explain the importance of use of 7 factors of official compendium 4
to test the sample of chemical compound.
- b. Write the procedure for the determination of the 4
of the sample.
3. a. Write the test for the determination of the 4
of the sample.
- b. Write the test for the determination of the 4
of the sample.
4. a. Explain the importance of use of 7 factors of official compendium 4
to test the sample of chemical compound.
- b. Write the procedure for the determination of the 4
of the sample.
5. Explain the importance of use of 7 factors of official compendium 4
to test the sample of chemical compound.
6. a. Write the test for the determination of the 4
of the sample.
- b. Write the test for the determination of the 4
of the sample.
7. a. Write the test for the determination of the 4
of the sample.
- b. Write the test for the determination of the 4
of the sample.
8. a. Write the test for the determination of the 4
of the sample.
- b. Write the test for the determination of the 4
of the sample.
9. a. Write the test for the determination of the 4
of the sample.
- b. Write the test for the determination of the 4
of the sample.
10. a. Write the test for the determination of the 4
of the sample.
- b. Write the test for the determination of the 4
of the sample.



Code No: 110490

FACULTY OF PHARMACY

Pharmacy Pharmaceutics (I) Semester (Final) Examination
August 2021

Subject : Pharmaceutics

Time : 3 hours

Max. Marks : 75

Write answers for Questions 1) to 5) in brief and Questions 6) to 10) in detail.

1. a) Write down the composition and uses of Drug Form II.
b) Explain the uses of both Form I & II.
c) Write down the composition of Form I and Form II. 7
2. Explain the composition and uses of Form I and Form II. 10
3. a) Explain the composition and uses of Form I and Form II.
b) Explain the composition and uses of Form I and Form II. 10
4. Explain the composition and uses of Form I and Form II. 10
5. a) Explain the composition and uses of Form I and Form II.
b) Explain the composition and uses of Form I and Form II. 10
6. Explain the composition and uses of Form I and Form II. 10
7. a) Explain the composition and uses of Form I and Form II.
b) Explain the composition and uses of Form I and Form II. 10
8. Explain the composition and uses of Form I and Form II. 10
9. a) Explain the composition and uses of Form I and Form II.
b) Explain the composition and uses of Form I and Form II. 10
10. Explain the composition and uses of Form I and Form II. 10



Code No: HCUAP0

FACULTY OF PHARMACY

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

Level: Drug Delivery System

(Time: 2 Hours)

(Max. Marks: 50)

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

1. (a) Define controlled release and give two main reasons for its use in pharmaceuticals.
(b) What are biodegradable polymers? Discuss the factors affecting drug release from them. 10
2. (a) Discuss the principles and design aspects of a patch. How does pH affect drug release from a patch?
(b) Explain matrix type delivery system. 10
3. (a) Give advantages and limitations of transdermal drug delivery.
(b) Explain the factors affecting drug release from a patch. 10
4. (a) What are the factors affecting drug release from a patch?
(b) Discuss the factors affecting drug release from a patch. 10
5. Define controlled release and give two main reasons for its use in pharmaceuticals. 10
6. Discuss the principles and design aspects of a patch. How does pH affect drug release from a patch? 10
7. (a) What are the factors affecting drug release from a patch?
(b) Explain the factors affecting drug release from a patch. 10
8. (a) Define controlled release and give two main reasons for its use in pharmaceuticals.
(b) Explain the factors affecting drug release from a patch. 10



Code No: 100240

FACULTY OF PHARMACY

Pharmacy Department - Jordan PG (I) Exam Extension
April 2018

Subject: Neuro-Pharmacology

Time: 1 hour

Max. Marks: 20

Note: Answer any Five Questions, 4 Questions Carry Four Marks.

1. (a) Propose a mechanism of drug action on acetylcholine release. (4)
- (b) Define local anesthetic agents according to their mechanism of action. (4)
2. (a) Propose a mechanism of action of anticholinergic drugs. (4)
- (b) Define anticholinergic drugs and give an example. (4)
3. Define the following terms of Local Anesthetics: (4)
- (a) Lipid solubility of local anesthetic agents. (4)
- (b) Protein binding of local anesthetic agents. (4)
4. (a) Define the following terms: (4)
- (b) Define the following terms: (4)
5. (a) Define the following terms: (4)
- (b) Define the following terms: (4)
6. (a) Define the following terms: (4)
- (b) Define the following terms: (4)
7. (a) Define the following terms: (4)
- (b) Define the following terms: (4)
8. (a) Define the following terms: (4)
- (b) Define the following terms: (4)
9. (a) Define the following terms: (4)
- (b) Define the following terms: (4)
10. (a) Define the following terms: (4)
- (b) Define the following terms: (4)



PHARMACY

1. Pharmacy Council of India (PCI) is a statutory body established in 1947.

2. PCI is a statutory body established in 1947.

3. PCI is a statutory body established in 1947.

Total 3 marks

Max. Marks 20

Q1. Pharmacy Council of India (PCI) is a statutory body established in 1947.

- (i) PCI is a statutory body established in 1947. (1 mark)
- (ii) PCI is a statutory body established in 1947. (1 mark)
- (iii) PCI is a statutory body established in 1947. (1 mark)
- (iv) PCI is a statutory body established in 1947. (1 mark)
- (v) PCI is a statutory body established in 1947. (1 mark)
- (vi) PCI is a statutory body established in 1947. (1 mark)
- (vii) PCI is a statutory body established in 1947. (1 mark)
- (viii) PCI is a statutory body established in 1947. (1 mark)
- (ix) PCI is a statutory body established in 1947. (1 mark)
- (x) PCI is a statutory body established in 1947. (1 mark)
- (xi) PCI is a statutory body established in 1947. (1 mark)
- (xii) PCI is a statutory body established in 1947. (1 mark)
- (xiii) PCI is a statutory body established in 1947. (1 mark)
- (xiv) PCI is a statutory body established in 1947. (1 mark)
- (xv) PCI is a statutory body established in 1947. (1 mark)
- (xvi) PCI is a statutory body established in 1947. (1 mark)
- (xvii) PCI is a statutory body established in 1947. (1 mark)
- (xviii) PCI is a statutory body established in 1947. (1 mark)
- (xix) PCI is a statutory body established in 1947. (1 mark)
- (xx) PCI is a statutory body established in 1947. (1 mark)



FACULTY OF PHARMACY

Pharmacy Internship – Semester 2022/2023 (Continued)

January 2023

Topic: Regulatory Issues

Time: 1 hour

Max. Mark: 10

NOTE: Answer any Five questions of 20 marks (each) of 10 marks.

1. a) Describe any two parts of a product label as it may be required by regulatory authorities. b) Explain the need for labels of drugs. Power 1/2 (each) 2
2. State three functions of WHO Good Practice Guidelines (GPG) regarding pharmacy. 3
3. a) Explain a pharmacist's role with regard to the regulation of drugs. b) Explain GPG guiding practice concerning drugs. 3
4. a) Explain the structure of pharmaceutical industries. List 2 quality systems in regulatory compliance of GPG recommendations. Highlight one aspect. 6
5. a) Explain the various requirements for quality control system in pharmaceutical industry. b) Explain the role of regulatory authorities in ensuring the information is available and used to the public. 2
6. a) Explain a part of GPG. b) State official drugs of WHO and its Committee members. 2
7. a) Explain the role of WHO in the regulation of drugs. b) State the role of WHO in the regulation of drugs. 2
8. State and explain:
 - a. Pharmaceutical industry GPG
 - b. Health Insurance Regulatory and Development A.A.



FACULTY OF PHARMACY

Date: / /

Pharmaceutical Chemistry: Medicinal Chemistry
Pharmacology

Final Examination

Time: 2 hours

Max. Marks: 50

Note: Answer any Five Questions (10 Questions Only) (Total Marks: 50)

1. Explain the following terms: (10 marks)
a) Pharmacokinetics
b) Pharmacodynamics
c) Pharmacotherapeutics
2. Explain the following: (10 marks)
a) Pharmacokinetics: Factors affecting the absorption of a drug
b) Pharmacokinetics: Factors affecting the distribution of a drug
c) Pharmacokinetics: Factors affecting the elimination of a drug
3. Explain the following: (10 marks)
a) Pharmacokinetics: Factors affecting the absorption of a drug
b) Pharmacokinetics: Factors affecting the distribution of a drug
c) Pharmacokinetics: Factors affecting the elimination of a drug
4. Explain the following: (10 marks)
a) Pharmacokinetics: Factors affecting the absorption of a drug
b) Pharmacokinetics: Factors affecting the distribution of a drug
c) Pharmacokinetics: Factors affecting the elimination of a drug
5. Explain the following: (10 marks)
a) Pharmacokinetics: Factors affecting the absorption of a drug
b) Pharmacokinetics: Factors affecting the distribution of a drug
c) Pharmacokinetics: Factors affecting the elimination of a drug
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7. Explain the following: (10 marks)
a) Pharmacokinetics: Factors affecting the absorption of a drug
b) Pharmacokinetics: Factors affecting the distribution of a drug
c) Pharmacokinetics: Factors affecting the elimination of a drug
8. Explain the following: (10 marks)
a) Pharmacokinetics: Factors affecting the absorption of a drug
b) Pharmacokinetics: Factors affecting the distribution of a drug
c) Pharmacokinetics: Factors affecting the elimination of a drug

Signature of the Examiner
Date: / /



FACULTY OF PHARMACY

The pharmaceutical education program is leading curriculum
study (1st)

Unit - Drug review system

Date : _____

Roll No : _____

Title : Reviewing Post Graduate II Course (Drug Policy)

1. a) Importance of drug review system and importance of a drug review system with reference.
b) Ethical responsibility of the drug reviewer.
2. a) What is the drug review system? Define with reference to the system.
b) Classify the drug review system into two types. Explain the importance of each.
3. a) What are the objectives of the drug review system? Explain with reference to the system.
b) Explain the role of the drug reviewer in the drug review system.
c) Explain the role of the drug reviewer in the drug review system.
4. a) What are the objectives of the drug review system?
b) What are the objectives of the drug review system?
5. a) Explain the role of the drug reviewer in the drug review system. What are the objectives of the drug review system?
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b) Explain the role of the drug reviewer in the drug review system.



FACULTY OF PHARMACY

Pharmacy (Control of drugs) Semester (PCD) 2000 / Examination:
August 2019

Subject: Modern Pharmaceutical Analytical Techniques

Time: 3 hours

Max. Score: 75

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

1. (a) Discuss the main principles of HPLC system. At which point should you add a new mobile phase? (10)
- (b) Why is a mobile phase? Explain with a diagram. (10)
2. (a) Discuss the instrumentation and working of a detector in HPLC system. At which point should you add a new mobile phase? (10)
- (b) Discuss the main principles of HPLC system. At which point should you add a new mobile phase? (10)
3. (a) Discuss the main principles of HPLC system. At which point should you add a new mobile phase? (10)
- (b) Discuss the main principles of HPLC system. At which point should you add a new mobile phase? (10)
4. (a) Discuss the main principles of HPLC system. At which point should you add a new mobile phase? (10)
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- (b) Discuss the main principles of HPLC system. At which point should you add a new mobile phase? (10)
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- (b) Discuss the main principles of HPLC system. At which point should you add a new mobile phase? (10)
9. (a) Discuss the main principles of HPLC system. At which point should you add a new mobile phase? (10)
- (b) Discuss the main principles of HPLC system. At which point should you add a new mobile phase? (10)
10. (a) Discuss the main principles of HPLC system. At which point should you add a new mobile phase? (10)
- (b) Discuss the main principles of HPLC system. At which point should you add a new mobile phase? (10)



Code No. 20280

FACULTY OF PHARMACY

Jordanian Pharmaceutical Society (JPS) - Jordanian Pharmaceutical Society
JPS 20280

Target Drug Delivery Systems

(Time: 3 hours)

(Max. marks: 75)

Total marks for this examination are 75 marks (75/75)

1. Discuss the advantages and disadvantages of the following drug delivery systems (10 marks)
2. a) Classify parenteral systems for delivery of drugs in parenteral drug delivery systems (11 marks)
b) Discuss the advantages and disadvantages of parenteral systems (11 marks)
3. a) Discuss the advantages and disadvantages of parenteral drug delivery systems (11 marks)
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4. Discuss the advantages and disadvantages of parenteral drug delivery systems (11 marks)
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7. Discuss the advantages and disadvantages of parenteral drug delivery systems (11 marks)
8. a) Discuss the advantages and disadvantages of parenteral drug delivery systems (11 marks)
b) Discuss the advantages and disadvantages of parenteral drug delivery systems (11 marks)



FACULTY OF PHARMACY

University of Medicine and Health Sciences, Nepal, Chitwan, Nepal

Department of Pharmacology

Date: / /

Page No.: 1

Q. Answer the following questions in brief (10 marks each)

1. a) Define the term 'pharmacokinetics' and its sub-disciplines. 1
b) Define the term 'pharmacodynamics' and its sub-disciplines. 1
c) Define the term 'pharmacotherapeutics' and its sub-disciplines. 1
2. a) Define the term 'pharmacokinetics' and its sub-disciplines. 1
b) Define the term 'pharmacodynamics' and its sub-disciplines. 1
c) Define the term 'pharmacotherapeutics' and its sub-disciplines. 1
3. a) Define the term 'pharmacokinetics' and its sub-disciplines. 1
b) Define the term 'pharmacodynamics' and its sub-disciplines. 1
c) Define the term 'pharmacotherapeutics' and its sub-disciplines. 1
4. a) Define the term 'pharmacokinetics' and its sub-disciplines. 1
b) Define the term 'pharmacodynamics' and its sub-disciplines. 1
c) Define the term 'pharmacotherapeutics' and its sub-disciplines. 1
5. a) Define the term 'pharmacokinetics' and its sub-disciplines. 1
b) Define the term 'pharmacodynamics' and its sub-disciplines. 1
c) Define the term 'pharmacotherapeutics' and its sub-disciplines. 1
6. a) Define the term 'pharmacokinetics' and its sub-disciplines. 1
b) Define the term 'pharmacodynamics' and its sub-disciplines. 1
c) Define the term 'pharmacotherapeutics' and its sub-disciplines. 1
7. a) Define the term 'pharmacokinetics' and its sub-disciplines. 1
b) Define the term 'pharmacodynamics' and its sub-disciplines. 1
c) Define the term 'pharmacotherapeutics' and its sub-disciplines. 1
8. a) Define the term 'pharmacokinetics' and its sub-disciplines. 1
b) Define the term 'pharmacodynamics' and its sub-disciplines. 1
c) Define the term 'pharmacotherapeutics' and its sub-disciplines. 1



NOTICE OF TENDER

For the purchase of Medicines for the treatment of Malaria

Under the Ministry of Health and Family Welfare

At: New Delhi

On: 10.10.2018

The Government of India, Ministry of Health and Family Welfare

1. The tender is invited for the purchase of the following medicines for the treatment of Malaria:
 - (a) Artemisinin-based combination therapies (ACTs)
 - (b) Single-drug therapies (SDTs)
 - (c) Combination therapies (CTs)
2. The tender is invited for the purchase of the following medicines for the treatment of Malaria:
 - (a) Artemisinin-based combination therapies (ACTs)
 - (b) Single-drug therapies (SDTs)
 - (c) Combination therapies (CTs)
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 - (a) Artemisinin-based combination therapies (ACTs)
 - (b) Single-drug therapies (SDTs)
 - (c) Combination therapies (CTs)
4. The tender is invited for the purchase of the following medicines for the treatment of Malaria:
 - (a) Artemisinin-based combination therapies (ACTs)
 - (b) Single-drug therapies (SDTs)
 - (c) Combination therapies (CTs)
5. The tender is invited for the purchase of the following medicines for the treatment of Malaria:
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 - (c) Combination therapies (CTs)
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 - (c) Combination therapies (CTs)



FACULTY OF PHARMACY

Exam No. 10000

Pharmaceutical Science 2012 Exam Question February 2012

Subject: Drug Delivery System

The Answer

Max (Mark) 50

Note: (1) answer for questions all questions carry same marks

1. Define a solid dosage form and list its advantages and disadvantages. (10)
2. Define a liquid dosage form and list its advantages and disadvantages. (10)
3. Define a semisolid dosage form and list its advantages and disadvantages. (10)
4. Define a gas dosage form and list its advantages and disadvantages. (10)
5. Define a parenteral dosage form and list its advantages and disadvantages. (10)
6. Define a topical dosage form and list its advantages and disadvantages. (10)
7. Define a transdermal dosage form and list its advantages and disadvantages. (10)
8. Define a nasal dosage form and list its advantages and disadvantages. (10)
9. Define a buccal dosage form and list its advantages and disadvantages. (10)
10. Define a rectal dosage form and list its advantages and disadvantages. (10)



UNIVERSITY OF THE SOUTH PACIFIC

Course No. 1000000000

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

Course Title: Business Statistics

Level: BSc

Year: 1st

Course Objectives

1. To provide students with a solid foundation in the principles and concepts of statistics.
2. To enable students to apply statistical techniques to solve problems in business and industry.
3. To develop students' ability to interpret and communicate statistical results.
4. To provide students with the necessary skills to conduct statistical research.
5. To equip students with the knowledge and skills to use statistical software.
6. To develop students' ability to critically evaluate statistical data and conclusions.
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10. To provide students with the necessary skills to conduct statistical research.

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