



PAST PAPERS

<i>Faculty</i>	<i>Department / Section/Division</i>
<i>Not Applicable</i>	<i>Learning Resource Centre</i>

Past Papers

Faculty of Health Sciences

**Higher diploma in Pharmaceutical &
cosmetic sciences**

(Year 1 – Semester II)

<i>Document Control & Approving Authority</i>	<i>Senior Director – Quality Management & Administration</i>
---	--

<i>1st Issue Date: 2017.011.30</i>	<i>Revision No.00</i>	<i>Revision Date: 19.04.2023</i>	<i>Validated by: Librarian</i>
---	-----------------------	----------------------------------	--------------------------------

Faculty of Health Sciences
Diploma in Pharmaceutical & Cosmetic Sciences
Pharmaceutical Microbiology - DPC 1233
1st YEAR 2nd SEMESTER - END EXAMINATION SEQ -BATCH 02

Date : 20.12.2023
Time : 09.00 am – 12.00 pm (Three Hours)

INSTRUCTIONS TO CANDIDATES

- This question paper consists of **SIX** questions.
- Answer **ALL** questions.
- You should write legibly in black or blue ink

- Question 01** (100 marks)
- 1.1 Mention the parts of optical microscope and explain the light pathway. (30 marks)
- 1.2 Differentiate magnification and resolution. (30 marks)
- 1.3 State the mechanism of the below optical microscopes.
- 1.3.1 Dark bright field microscope (10 marks)
- 1.3.2 Bright field microscope (10 marks)
- 1.3.3 Phase contrast microscope (10 marks)
- 1.3.4 Fluorescent microscope (10 marks)
- Question 02** (100 marks)
- 2.1 Define the culture medium? (10 marks)
- 2.2 Describe different types of culture media depending on consistency and ingredients of medium. (30 marks)
- 2.3 Briefly explain minimum inhibitory concentration (MIC). (15 marks)
- 2.4 Mention the steps followed when performing Kirby-Bauer Disk Diffusion Susceptibility Test. (25 marks)
- 2.5 Differentiate E-test and disc diffusion method. (20 marks)
- Question 03** (100 marks)
- 3.1 Define Generation time in prokaryotes. (20 marks)
- 3.2 Describe different stages of a growth curve. (20 marks)

3.3 Mention the purpose of culture methods. (20 marks)

3.4 Differentiate facultative anaerobes & aerotolerant anaerobes (40 marks)

Question 04 (100 marks)

4.1 Compare the structures of gram positive and gram-negative cell wall. (20 marks)

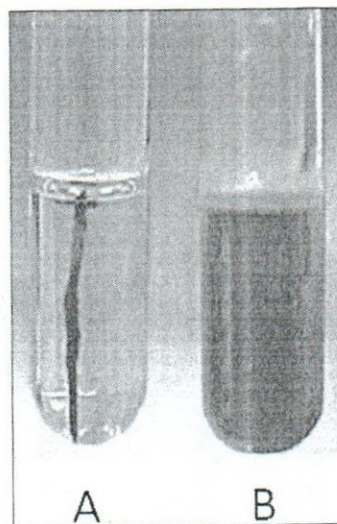
4.2 State the methods of smear fixation. (20 marks)

4.3 Describe the steps of gram stain technique in relation to cell wall of the microorganism. (30 marks)

4.4 Describe types of stains based on the nature of chromogen. (30 marks)

Question 05 (100 marks)

5.1 Identify the following results of motility test and describe the characters of the microorganisms in tube A & B. (40 marks)



5.2 State the factors that weakens host defence system and increase the susceptibility of infection. (30 marks)

5.3 Describe the process of development of microbial infection within a host. (30 marks)

Question 06 (100 marks)

6.1 Mention different methods of transmission of viruses with examples. (25 marks)

6.2 Describe the pathogenesis, complication of *Varicella zoster*. (30 marks)

6.3 Describe the viral replication within a host cell. (35 marks)

6.4 State the diagnosis test used for viruses. (10 marks)



Faculty of Health Sciences
Diploma in Pharmaceutical and Cosmetic Sciences

DPC 1243 Pharmacology
Batch – 02
1st Year 2nd Semester
End Semester SEQ Examination

Date : 09th of December 2023
Time : 09.00 am – 12.00 pm (Three Hours)

INSTRUCTIONS TO CANDIDATES

- This question paper consists of **SIX SEQ** questions.
- Answer **ALL** questions.
- You should write legibly in black or blue ink.

Question 01 Briefly describe, 1.1. First pass metabolism 1.2. Half-life of a drug	(100 marks) (50 marks) (50 marks)
Question 02 List the, 2.1. types of adverse drug interactions 2.2. stages of clinical trials 2.3. diuretic used in clinical practice	(100 marks) (40 marks) (40 marks) (20 marks)
Question 03 List the drugs used in, 3.1. Acute gastritis 3.2. Acute bronchitis 3.3. Hypertension	(100 marks) (25 marks) (35 marks) (40 marks)

Question 04

What are the drugs used for,

- 4.1. Local anesthesia
- 4.2. General anesthesia
- 4.3. Vomiting
- 4.4. Epilepsy

(100 marks)

(25 marks)

(25 marks)

(25 marks)

(25 marks)

Question 05

Describe the clinical use of,

- 5.1. Adrenaline
- 5.2. Salbutamol
- 5.3. Prazosin
- 5.4. Prednisolone

(100 marks)

(25 marks)

(25 marks)

(25 marks)

(25 marks)

Question 06

Explain the terms of,

- 6.1. Drug toxicity
- 6.2. Contraindications
- 6.3. First order kinetics
- 6.4. Drug excretion methods

(100 marks)

(25 marks)

(25 marks)

(25 marks)

(25 marks)



Faculty of Health Sciences
Diploma in Pharmaceutical & Cosmetic Sciences

DPC 1213
Anatomy & Physiology II
1st year 2nd Semester
End Semester SEQ Examination
2nd Batch

Date : 6th December 2023
Time : 9.00 a.m. – 12.00 p.m. (Three hours)

INSTRUCTIONS TO CANDIDATES

- This question paper consists of **SIX** questions.
- Answer **ALL** questions.
- You should write legibly in black or blue ink.

- Question 1** **(100 marks)**
- 1.1 Draw a label diagram of a nephron. (25 marks)
- 1.2 Write short note on gross anatomy of longitudinal section of kidney. (25 marks)
- 1.3 List the constituents in the glomerular filtrate. (15 marks)
- 1.4 Describe the process of urine formation. (35 marks)
- Question 2** **(100 marks)**
- 2.1 Name the three layers of meninges. (15 marks)
- 2.2 Describe the structure of a neuron. (35 marks)
- 2.3 What is resting membrane potential (RMP)? (20 marks)
- 2.4 Name the main three (03) components of synapse (15 marks)
- 2.5 Write **three (03)** factors determine the speed of nerve conduction. (15 marks)
- Question 3** **(100 marks)**
- 3.1 Write short notes on followings.
- 3.1.1 Thyroid gland (25 marks)
- 3.1.2 Endocrine pancreas (25 marks)
- 3.2 List the hormones which are secreted by the anterior pituitary gland. (15 marks)
- 3.3 List the **three (03)** hormones which are secreted by adrenal cortex. (15 marks)
- 3.4 Outline the functions of hormones which mentioned in 3.3 (20 marks)
- Question 4** **(100 marks)**
- 4.1 List the components present in the spermatic cord. (20 marks)

- 4.2 Write short notes on followings.
- 4.2.1 Corpus luteum (20 marks)
 - 4.2.2 Corpus luteum (20 marks)
- 4.3 List the functions of the following structures of male reproductive system. (40 marks)
- 4.3.1 Scrotum
 - 4.3.2 Epididymis
 - 4.4.3 Seminal vesicles
 - 4.4.4 Prostate gland

Question 5 (100 marks)

- 5.1 Write short notes on followings.
- 5.1.1 Eccrine sweat glands (25 marks)
 - 5.1.2 Tympanic membrane (eardrum) (25 marks)
- 5.2 Outline the functions of the skin. (30 marks)
- 5.3 Name primary and secondary immune organs present in human body. (20 marks)

Question 6 (100 marks)

- 6.1 Names all bones in upper limbs. (20 marks)
- 6.2 Compare skeletal muscles, cardiac muscles and smooth muscles. (30 marks)
- 6.3 Name the main contractile proteins in skeletal muscle (20 marks)
- 6.4 Briefly describe the main steps of contraction of skeletal muscle (30 marks)



Faculty of Health Sciences
Diploma in Pharmaceutical and Cosmetic Sciences

DPC 1243 Pharmacology
Batch - 02
1st Year 2nd Semester
End Semester MCQ Examination

INDEX NUMBER:

Date : 09th of December 2023
Time : 01.00 pm - 02.00 pm (One Hour)

INSTRUCTIONS TO CANDIDATES

- This question paper consists of **Twenty MCQ** questions.
- Answer **ALL** questions.
- Out of five statements, some statements are true and some statements are false. Please mark true statements in the row of **True** and mark false statements in the row of **False**.
Ex:

True	a	b	c	d	e
False	a	b	c	d	e

- You should mark the answer legibly in black or blue ink.
- You are not allowed to take out the examination papers.

1. True

a	b	c	d	e	
False	a	b	c	d	e

2. True
False

a	b	c	d	e
a	b	c	d	e

3. True
False

a	b	c	d	e
a	b	c	d	e

4. True
False

a	b	c	d	e
a	b	c	d	e

5. True
False

a	b	c	d	e
a	b	c	d	e

6. True
False

a	b	c	d	e
a	b	c	d	e

7. True
False

a	b	c	d	e
a	b	c	d	e

8. True
False

a	b	c	d	e
a	b	c	d	e

9. True
False

a	b	c	d	e
a	b	c	d	e

10. True
False

a	b	c	d	e
a	b	c	d	e

11. True
False

a	b	c	d	e
a	b	c	d	e

12. True

a	b	c	d	e
a	b	c	d	e

False

13. True

a	b	c	d	e
a	b	c	d	e

False

14. True

a	b	c	d	e
a	b	c	d	e

False

15. True

a	b	c	d	e
a	b	c	d	e

False

16. True

a	b	c	d	e
a	b	c	d	e

False

17. True

a	b	c	d	e
a	b	c	d	e

False

18. True

a	b	c	d	e
a	b	c	d	e

False

19. True

a	b	c	d	e
a	b	c	d	e

False

20. True

a	b	c	d	e
a	b	c	d	e

False



Faculty of Health Sciences
Diploma in Pharmaceutical and Cosmetic Sciences
DPC 1223 - Pharmaceutical and Cosmeceutical Materials and Dispensing
Batch 02
1st Year 2nd Semester
End Semester Examination – Assignment

Date : 02nd December 2023

Time : 01.30 p.m. to 02.30 p.m.

INSTRUCTIONS TO CANDIDATES

- This question paper consists of **TWO (02)** questions.
- Answer **ALL** the questions.
- Candidate should answer legibly in black or blue ink.

Question 01

(100 marks)

Imagine you own a pharmaceutical manufacturing company. One of your orders of raw materials has been received in the morning.

- a. 100 containers of salbutamol
- b. 1600 containers of maize starch

- 1.1 What **two (02)** documents/ receipts will you check/ generate before receiving the raw materials? (10 marks)
- 1.2 Calculate the number of samples you will take for testing purposes from salbutamol and maize starch containers. (20 marks)
- 1.3 Sampling requires the use of sampling plans. State what sampling plan will you use if the materials above are,
 - 1.3.1 uniform materials, from known recognized, reliable supplier with high confidence.
 - 1.3.2 uniform materials, from known recognized supplier.
 - 1.3.3 non-uniform materials, from unknown supplier. (30 marks)
- 1.4 Sampling requires weighing of materials. Explain how you would check whether your weighing balances have accuracy and precision. (40 marks)

Question 02**(100 marks)**

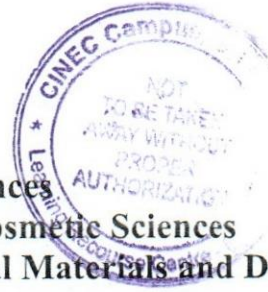
As personnel working in a pharmaceutical manufacturing company, you are asked to wear personal protective equipment.

2.1 Other than personnel source, name **two (02)** other sources of contamination. (10 marks)

2.2 "Gloves must be changed if heavily contaminated or damaged." Do you agree?
Comment on your answer. (20 marks)

2.3 Briefly describe how you would maintain your personnel hygiene as an employee in the pharmaceutical company. (30 marks)

2.4 As an employee in a healthcare related field, you are concerned about the environmental impact of personal protective equipment (PPE) use. Explain why reusable PPE are better than single-use PPE for your company. (40 marks)



Faculty of Health Sciences
Diploma in Pharmaceutical and Cosmetic Sciences
DPC 1223 - Pharmaceutical and Cosmeceutical Materials and Dispensing
Batch 02
1st Year 2nd Semester
End Semester Examination - SEQ

Date : 02nd December 2023

Time : 09.00 a.m. to 12.00 p.m.

INSTRUCTIONS TO CANDIDATES

- This question paper consists of **SIX (06)** questions.
- Answer **ALL** the questions.
- Candidate should answer legibly in black or blue ink.

Question 01 (100 marks)

- 1.1 List **two (02)** advantages of proper material handling. (10 marks)
- 1.2 Draw and label a diagram of 'sampling thief'. (20 marks)
- 1.3 Briefly describe the difference between raw material identification and raw material identity verification. (30 marks)
- 1.4 Describe the main steps of sampling process. (40 marks)

Question 02 (100 marks)

- 2.1 List the **four (04)** stages of handling of materials. (10 marks)
- 2.2 State the importance of maintaining cleanliness in pharmaceutical industry. (20 marks)
- 2.3 Briefly describe the classification of defects according to the type of damage and level of severity. (30 marks)
- 2.4 Explain why pharmaceutical companies require insurance. (40 marks)

- Question 03** (100 marks)
- 3.1 List the **three (03)** stages of warehousing. (10 marks)
- 3.2 Explain “stock cards” used in pharmaceutical warehousing. (20 marks)
- 3.3 Briefly describe why Good Warehousing Practices are important. (30 marks)
- 3.4 List the **three (03)** main strategies used for warehouse management and explain **one (01)** of them. (40 marks)

- Question 04** (100 marks)
- 4.1 List **two (02)** meetings from the monthly meeting cadence. (10 marks)
- 4.2 State **one (01)** difference between Goods Received Note and Purchase Order. (20 marks)
- 4.3 Briefly describe Kanban system. (30 marks)
- 4.4 Describe “Enterprise Resource Planning in pharmaceutical industry”. (40 marks)

- Question 05** (100 marks)
- 5.1 List **two (02)** functions of containers in pharmaceutical industry. (10 marks)
- 5.2 State the principle of pneumatic conveyors. (20 marks)
- 5.3 List the **three (03)** types of weighing scales available and briefly describe **one (01)** of them. (30 marks)
- 5.4 Describe the double and cross check method. (40 marks)

- Question 06** (100 marks)
- 6.1 List **two (02)** parts included in the personal protective equipment (PPE). (10 marks)
- 6.2 Define what is a ‘cleanroom’ in pharmaceutical industry. (20 marks)
- 6.3 Why are ‘personnel’ considered as the main source of contamination? (30 marks)
- 6.4 Describe the doffing process. (40 marks)



Faculty of Health Sciences
Higher Diploma in Pharmaceutical & Cosmetics Sciences
HD 1223 – Pharmaceutical & Cosmeceutical Microbiology

1st Year 2nd Semester

Batch 01

End Semester SEQ Examination

INDEX NUMBER:

Date : 27.01.2023

Time : 09.00 am – 12.00pm

INSTRUCTIONS TO CANDIDATES

- This question paper consists of **SIX** questions.
- Answer **ALL** questions.
- You should write legibly in black or blue ink.
- You are not allowed to take out the examination papers.

QUESTION 01

(100 marks)

- 1.1 Define Generation time. (15 marks)
- 1.2 Mention two types of asexual reproduction of microbes. (15 marks)
- 1.3 Describe different stages of a growth curve. (30 marks)
- 1.4 State the 5 different sub types of aerobic and anaerobic microorganisms. (20 marks)
- 1.5 Mention differences of a Gram Positive cell wall vs a Gram Negative cell wall. (20 marks)

QUESTION 02

(100 marks)

- 2.1 What is a culture medium? (10 marks)
- 2.2 What are different types of culture methods? (20 marks)
- 2.3 Describe major factors in the development of a microbial infection. (30 marks)

2.4 Differentiate simple and differential staining methods (20 marks)

2.5 State the methods of smear fixation. (20 marks)

QUESTION 03 (100 marks)

Describe the bacterial morphology, identification characteristics and causing diseases.

3.1 *Pseudomonas aeruginosa* (25 marks)

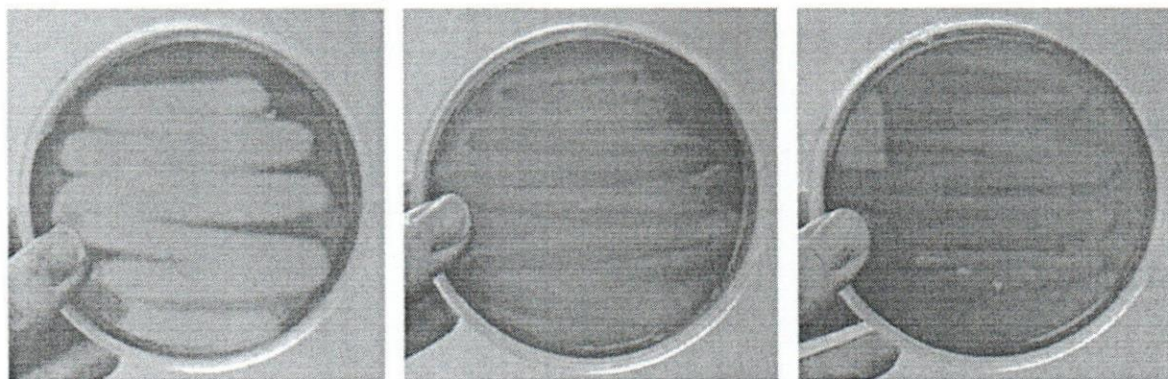
3.2 *Escherichia coli* (25 marks)

3.3 *Salmonella shigella* (25 marks)

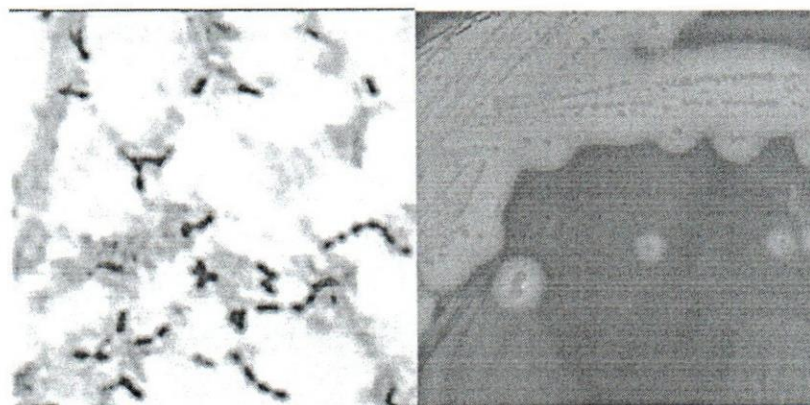
3.4 *Neisseria gonorrhoeae* (25 marks)

QUESTION 04 (100 marks)

4.1 Identify the following types of hemolysis in blood agar and describe their characteristics (20 marks)



4.2 A sample swab from a cosmeceutical product was cultured on a blood agar media and a gram stain was performed. The results of the gram stain and specimen cultured media are shown below.



4.2.1 What is the suspected microorganism? Discuss your answer with the above microscopic and macroscopic results and biochemical identification tests. (50 marks)

4.2.2 What are the virulence factors of this organism? (15 marks)

4.2.3 What are the two types of spores forming bacilli? (15 marks)

QUESTION 05 (100 marks)

5.1 Describe different types of culture media depending on consistency and ingredients of medium. (25 marks)

5.2 What is minimum inhibitory concentration (MIC)? (15 marks)

5.3 Mention the steps when performing Kirby-Bauer Disk Diffusion Susceptibility Test (35 marks)

5.4 What are the differences between an E- test vs a disc diffusion method? (25 marks)

QUESTION 06 (100 marks)

6.1 State the difference among transformation, transduction, and conjugation of bacterial DNA. (45 marks)

6.2 What are the difference between plasmid DNA vs Chromosomal DNA? (10 marks)

6.3 State the differences among transformation, transduction, and conjugation of bacterial DNA. (45 marks)

Library

00005



Faculty of Health Sciences
Higher Diploma in Pharmaceutical & Cosmetic Sciences
HD 1223– Pharmaceutical & Cosmeceutical Materials & Dispensing
Batch - 01
1st year 2nd semester
Repeat SEQ Examination

Date : 25th January 2023
Time : 9.00 a.m. -12.00p.m (Three hours)

INSTRUCTIONS TO CANDIDATES

- This question paper consists of **SIX** questions.
- Answer **ALL** questions.
- You should write the answers in **lined sheets** legibly in black or blue ink.

Question 01 **(100 marks)**

- 1.1 List **05** of the main steps of a Root Cause Analysis (RCA). (10 Marks)
- 1.2 Brief the rationale of **03** types in defect classification. (20 marks)
- 1.3 Describe the process of developing a refined problem state using Five W1H and Gap analysis approach. (30 marks)
- 1.4 Develop a Root cause analysis for the below problem. (40 marks)

You receive a customer complaint for a wrong label in a syrup product ABC. Instead , a label of product XYZ is pasted. These two products are from the same product group and SKU (Stock keeping unit) size with green color print. Batch 22C3 of Product XYZ has been produced on 3rd March 2022 and Batch 22C7 of Product ABC was produced on the immediate next day (4th March 2022) . Line clearance exercise has been performed by a new employee and records of the morning start up check was not

available when investigating. There has been a shortage of team due to a Covid outbreak in the area. Electronic verification system for label identification was implemented recently, but is not still validated due to performance issues since Jan 22. In warehouse it was also identified that both the label boxes were stored in the same isle as they are from same packing material supplier.

Question 02**(100 marks)**

- 2.1 List **05** instruments you use in a manufacturing plant for the proper handling procedure. (15 marks)
- 2.2 State the technique used in dense phase to transfer the bulk materials (25 marks)
- 2.3 Hundred (100) bulk containers of uniform active pharmaceutical ingredient was purchased from the regular supplier to the ABC pharmaceutical manufacturing company. Develop the sampling plan and calculate the number of samples that are required to collect from the samples for the quality assurance. (40 marks)
- 2.4 Briefly describe the method of in-process sampling in the blending stage (20 marks)

Question 03**(100 Marks)**

- 3.1 What are the Personnel Protective Equipment (PPE) available in pharmaceutical manufacturing facilities? (10 marks)
- 3.2 How PPE increasing the quality of the pharmaceutical products? (10 marks)
- 3.3 Briefly describe the types of labels that are used when storing the bulk containers in the store room of a pharmaceutical manufacturing facility. (25 marks)
- 3.4 Describe the reasons for using different labels mentioned in 3.3. (25 marks)
- 3.5 State the reasons for using Double and cross-check method for the weighing procedure. (30 marks)

Question 04**(100 marks)**

- 4.1 List **05** components of a Purchase Order. (15 marks)
- 4.2 State **04** things discussed/considered in a Supply Review Meeting (SRM). (20 marks)
- 4.3 State the process flow of a requisition process of a batch. (30 marks)
- 4.4 Discuss the changes you propose in the process flow following scenario for the batch.

Note down a sample pick order for the rework batch. Bin size of API A is 2 kg.

(35 marks)

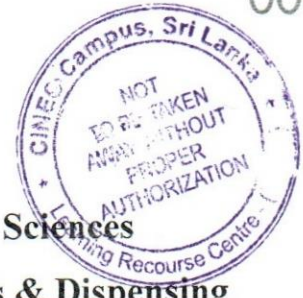
Batch 22C4 of ABC syrup was manufactured on 23rd March and is being identified to have low assay of the API A. Rework procedure is being developed to rework the batch with additional 5kg of A to be included in the batch and process to be repeated from the final mixing stage.

Question 05**(100 Marks)**

- 5.1 What are the WHO guidelines for pharmaceutical storage area? (20 marks)
- 5.2 Briefly describe the pharmaceutical storage conditions should be followed. (25 marks)
- 5.3 Compare the three main strategies (FIFO, FEFO and LIFO) of warehouse management. (45 marks)
- 5.4 What is stock card? (10 marks)

Question 06**(100 marks)**

- 6.1 List **05** factors which is important for proper material management is important. (15 marks)
- 6.2 State **04** Key KPIs monitored in material management. (20 marks)
- 6.3 Briefly describe the key consideration to maintain quality issues during material management. (25 marks)
- 6.4 Categorize and describe the machinery used for handling of materials. (40 marks)


Faculty of Health Sciences
Higher Diploma in Pharmaceutical & Cosmetic Sciences
HD 1223– Pharmaceutical & Cosmeceutical Materials & Dispensing
HD Batch – 01- 1st year 2nd semester- Repeat Assignment

Date : 25th January 2023
 Time : 1.30 p.m. - 2.30 p.m. (One hour)

INSTRUCTIONS TO CANDIDATES

- This question paper consists of **One** question.
- Answer **ALL** questions.
- You should write the answers in **lined sheets** legibly in black or blue in

Question 01
(100 marks)

During the manufacturing process of Ascorbic acid the following weights were obtained. Complete your records according to double and cross check method. (70 marks)

Name of the ingredient		Initial Weight	Final weight
Ascorbic Acid	Bulk Container	5.869 kg	3.578 kg
	Sample	0.000 kg	2.000 kg
Starch	Bulk Container	3.257 kg	0.557 kg
	Sample	0.000 kg	2.500 kg
Hydroxy propylmethyl cellulose (HPMC)	Bulk Container	4.445 kg	3.445 kg
	Sample	0.000 kg	1.000 kg

1.2 Describe the reasons for the weight variation of the bulk containers

(30 marks)



Faculty of Health Sciences

Higher Diploma in Pharmaceutical & Cosmetic Sciences

HD 1213

Anatomy & Physiology II

1st year 2nd Semester

Repeat End Semester SEQ Examination

1st Batch

INDEX NUMBER:

Date : 23rd January 2023
 Time : 9.00 a.m. – 12.00 p.m. (Three hours)

INSTRUCTIONS TO CANDIDATES

- This question paper consists of **SIX** questions.
- Answer **ALL** questions.
- You should write legibly in black or blue ink.
- You are not allowed to take out the examination papers.

- | | |
|---|------------------------|
| Question 1 | (100 marks) |
| 1.1 Draw a label diagram of a nephron. | (25 marks) |
| 1.2 Write the differences between male and female urethra. | (25 marks) |
| 1.3 List the constituents in the glomerular filtrate. | (15 marks) |
| 1.4 Describe the process of urine formation. | (35 marks) |
|
Question 2 |
(100 marks) |
| 2.1 List the hormones which are secreted by the anterior pituitary gland. | (15 marks) |
| 2.2 List the 03 hormones which are secreted by adrenal cortex. | (15 marks) |
| 2.3 Outline the functions of hormones which mentioned in 3.4. | (20 marks) |
| 2.4 Write short notes on followings. | |
| 2.4.1 Thyroid follicles | (25 marks) |
| 2.4.2 Adrenal gland cortex | (25 marks) |
|
Question 3 |
(100 marks) |
| 3.1 Name the three layers of meninges. | (15 marks) |
| 3.2 Describe the structure of a neuron. | (35 marks) |

- 3.3 Name the main 3 components of synapse (15 marks)
3.4 Describe the transmission of nerve impulse at synapse (35 marks)

Question 4 (100 marks)

- 4.1 Names all bones in upper limbs. (20 marks)
4.2 Compare skeletal muscles, cardiac muscles and smooth muscles. (30 marks)
4.3 Name the main contractile proteins in skeletal muscle (20 marks)
4.4 Briefly describe the main steps of contraction of skeletal muscle (30 marks)

Question 5 (100 marks)

- 5.1 Briefly describe the functions of testosterone hormone (25 marks)
5.2 Outline the functions of following structures of male reproductive system. (25 marks)
 5.2.1 Testes
 5.2.2 Epididymis
 5.2.3 Vas deferens
 5.2.4 Urethra
 5.2.5 Prostate gland
5.3 List the organs present in female reproductive system. (20 marks)
5.4 Describe the microscopic view of cortex of human ovary. (30 marks)

Question 6 (100 marks)

- 6.1 Name primary and secondary immune organs present in human body. (20 marks)
6.2 Describe the structure of the lymph nodes. (30 marks)
6.3 Name the main two types of phagocytic cells in human body (20 marks)
6.4 Write short note on tympanic membrane. (30 marks)



Faculty of Health Sciences
Higher Diploma in Pharmaceutical and Cosmetic Science

HD 1253
Dermatology
1st year 2nd Semester

Repeat End Semester SEQ Examination
1st Batch



INDEX NUMBER:

Date : 19th January 2023
Time : 9.00 a.m. – 12.00 p.m. (Three hours)

INSTRUCTIONS TO CANDIDATES

- This question paper consists of **SIX** questions.
- Answer **ALL** questions.
- You should write legibly in black or blue ink.
- You are not allowed to take out the examination papers.

Question 1	(100 marks)
1.1 List main cell layers present in thick skin.	(25 marks)
1.2 Describe the characters of following skin types.	
1.2.1 Dry skin	(25 marks)
1.2.2 Oily skin	(25 marks)
1.3 Show a combination skin on face by a labeled diagram.	(25 marks)
Question 2	(100 marks)
2.1 Describe the following stages which are part of hair life cycle.	
2.1.1 Anagan	(30 marks)
2.1.2 Catagen	(30 marks)
2. 2 Describe the structure of human hair	(40 marks)
Question 3	(100 marks)
3.1 List four different types of acne scare	(20 marks)
3.2 List five acne scarring treatments.	(20 marks)
3.3 Write a short note on dermal filler.	(30 marks)
3.4 How skin acts as a biological barrier?	(30 marks)

Question 4

4.1 List four principle cells present in the epidermis.

(100 marks)

(20 marks)

4.2 What are the dermal papillae?

(20 marks)

4.3 What are the two primary forms of Melanin.

(20 marks)

4.4 Describe the functions of melanocytes.

(40 marks)

Question 5

5.1 Write a short note on arector pili muscle.

(100 marks)

(30 marks)

5.2 What are the different between eccrine and apocrine sweat glands?

(35 marks)

5.3 Describe the structure of sebaceous glands.

(35 marks)

Question 6

6.1 Describe the functions of nails.

(100 marks)

(35 marks)

6.2 Describe what can you do for nail cuticle caring.

(35 marks)

6.3 Describe haircare tips.

(30 marks)



Faculty of Health Sciences
Higher Diploma in Pharmaceutical and Cosmetic Sciences
HD 1243 Pharmacology
Batch – 01
1st Year 2nd Semester
End Semester SEQ Repeat Examination

Date : 17th of January 2023
Time : 9.00 am. – 12.00 pm (Three Hours)

INSTRUCTIONS TO CANDIDATES

- This question paper consists of **SIX** questions.
- Answer **ALL** questions.
- You should write legibly in black or blue ink.
- You are not allowed to take out the examination papers.

Question 01 (100 marks)

1.1 Briefly describe the,
1.1.1 First pass metabolism. (25 marks)
1.1.2 Half-life. (25 marks)

1.2 Write the mode of action of,
1.2.1 Insulin. (25 marks)
1.2.2 Metformin. (25 marks)

Question 02 (100 marks)

- 2.1 List the examples for,
- 2.1.1 Benzodiazepines. (25 marks)
 - 2.1.2 Antianginal drugs. (25 marks)
- 2.2 What are the drugs used for peptic ulcers? (25 marks)
- 2.3 List two examples of drugs used for constipation. (25 marks)

Question 03 (100 marks)

- 3.1 List the types of antiemetic drugs. (30 marks)
- 3.2 Write short notes on,
- 3.2.1 Oral contraceptive drugs (35 marks)
 - 3.2.2 Clinical trials (35 marks)

Question 04 (100 marks)

- 4.1 What is bronchial asthma? (25 marks)
- 4.2 List the drug groups recommended for the treatment of asthma. (30 marks)
- 4.3 List the steroids administered for asthma. (25 marks)
- 4.4 What are the mode of administration for steroids in asthma? (20 marks)

Question 05 (100 marks)

- 5.1 Write one clinical indication of,
- 5.1.1 Aspirin (20 marks)
 - 5.1.2 Morphine (20 marks)
 - 5.1.3 Streptokinase (20 marks)
 - 5.1.4 Radioactive iodine (20 marks)
 - 5.1.5 Prednisolone (20 marks)

Question 06 (100 marks)

- 6.1 Write short notes on,
- 6.1.1 Anticancer drugs (25 marks)
 - 6.1.2 Antihypertensive drugs (25 marks)
 - 6.1.3 Calcium channel blockers (25 marks)
 - 6.1.4 Heparin (25 marks)



Faculty of Health Sciences
Higher Diploma in Pharmaceutical and Cosmetic Sciences

HD 1243 Pharmacology

Batch - 01

1st Year 2nd Semester

End Semester MCQ Repeat Examination

Date : 17th of January 2023
Time : 01.30 pm – 02.30 pm (One Hour)

INSTRUCTIONS TO CANDIDATES

- This question paper consists of **Twenty MCQ** questions.
- Answer **ALL** questions.
- Out of five statements, some statements are true and some statements are false. Please mark true statements in the row of **True** and mark false statements in the row of **False**.
Ex:

True	a	b	c	d	e
False	a	b	c	d	e

- You should mark the answer legibly in black or blue ink.
- You are not allowed to take out the examination papers.

1. Which of the following drug dissolve the intravascular fibrin clot?
 - a. Warfarin
 - b. Heparin
 - c. Aspirin
 - d. Clopidogrel
 - e. Streptokinase

2. What is the drug to reduce the pain in myocardial infarction?
 - a. Aspirin
 - b. Heparin
 - c. Morphine
 - d. Paracetamol
 - e. Diclofenac sodium

3. What is site of drug metabolism?
 - a. skin
 - b. intestine
 - c. blood
 - d. liver
 - e. Kidney

4. What is the best drug absorptive site?
 - a. Stomach
 - b. Transverse colon
 - c. Descending colon
 - d. Ileum
 - e. Jejunum

5. What is Teratogenicity?
 - a. Placental crossing of drugs
 - b. Drugs secretion to the breast milk
 - c. Drug induced fetal damages during pregnancy
 - d. Mothers illness due to drug toxicity
 - e. None of the above

6. Which of the following drug will relieve the pain in Angina pectoris?
 - a. Aspirin
 - b. Clopidogrel
 - c. Beta blockers
 - d. Calcium channel blockers
 - e. Nitrate sublingual

7. What is the best contraceptive method during lactation period?

- a. Combined tablets of contraception
- b. Implants
- c. Minipills
- d. Depo Provera injection
- e. Intrauterine device

8. Regarding Warfarin

- a. Can cause bleeding with overdose
- b. Shows immediate therapeutic action
- c. Use orally
- d. Monitored with INR
- e. Act on clotting factors

9. Adrenaline

- a. is a sympathomimetic
- b. act on beta receptors
- c. act on alfa receptors
- d. can cause tachycardia
- e. can increase blood pressure

10. ADME

- a. Is the pharmacodynamics process
- b. Can vary with the person
- c. Does not vary with age
- d. Process will not be changed in pregnancy
- e. Will not interfere with drug level.

11. Adverse drug reactions

- a. are always unpleasant
- b. are always predictable
- c. occur at therapeutic dose level
- d. of type B is bizarre reactions
- e. type F will end the treatment

12. Drug reactions

- a. can occur outside the body
- b. are always beneficial
- c. do not occur at absorptive level
- d. can modify the effect of another drug
- e. are not dangerous

13. Salbutamol,

- a. is used for bronchial asthma
- b. acts on alfa receptors
- c. can cause bradycardia
- d. is a sympathomimetic
- e. not available for inhalation

14. **Drugs used in gastric ulcers is / are**
- Omeprazole
 - Cimetidine
 - Paracetamol
 - Phenytoin
 - Antacids
15. **Drugs acting on uterus is /are**
- Prednisolone
 - Progesterone
 - Oxytocin
 - Domperidone
 - Estrogen
16. **Which of the drugs are acting on platelets?**
- Warfarin
 - Heparin
 - Aspirin
 - Clopidogrel
 - Streptokinase
17. **Which of the following drugs act on sympathetic system?**
- Adrenaline
 - Atropine
 - Salbutamol
 - Propranolol
 - Domperidone
18. **Which of the drugs are beta blockers?**
- Propranolol
 - Atenolol
 - Streptokinase
 - Alteplase
 - Acebutalol
19. **Which of the drugs are side effects of beta blockers?**
- Bradycardia
 - Heart failure
 - Cardiac block
 - Vomiting
 - Thrombosis
20. **Which of the drugs are vasodilators?**
- Nitrates
 - Calcium channel blockers
 - Beta blockers
 - Lignocaine
 - Adrenaline

Library

00008



Faculty of Health Sciences
Higher Diploma in Pharmaceutical and Cosmetic Sciences
HD 1243 Pharmacology
 Batch – 01
 1st Year 2nd Semester
 End Semester MCQ Repeat Examination

INDEX NUMBER:

Date : 17th of January 2023
 Time : 01.30 pm – 02.30 pm (One Hour)

INSTRUCTIONS TO CANDIDATES

- This question paper consists of **Twenty MCQ** questions.
- Answer **ALL** questions.
- Out of five statements, some statements are true and some statements are false. Please mark true statements in the row of **True** and mark false statements in the row of **False**.
Ex:

True	a	b	c	d	e
False	a	b	c	d	e

- You should mark the answer legibly in black or blue ink.
- You are not allowed to take out the examination papers.

1. True

a	b	c	d	e	
False	a	b	c	d	e

2. True
False

a	b	c	d	e
a	b	c	d	e

3. True
False

a	b	c	d	e
a	b	c	d	e

4. True
False

a	b	c	d	e
a	b	c	d	e

5. True
False

a	b	c	d	e
a	b	c	d	e

6. True
False

a	b	c	d	e
a	b	c	d	e

7. True
False

a	b	c	d	e
a	b	c	d	e

8. True
False

a	b	c	d	e
a	b	c	d	e

9. True
False

a	b	c	d	e
a	b	c	d	e

10. True
False

a	b	c	d	e
a	b	c	d	e

11. True
False

a	b	c	d	e
a	b	c	d	e

12. True

False

a	b	c	d	e
a	b	c	d	e

13. True

False

a	b	c	d	e
a	b	c	d	e

14. True

False

a	b	c	d	e
a	b	c	d	e

15. True

False

a	b	c	d	e
a	b	c	d	e

16. True

False

a	b	c	d	e
a	b	c	d	e

17. True

False

a	b	c	d	e
a	b	c	d	e

18. True

False

a	b	c	d	e
a	b	c	d	e

19. True

False

a	b	c	d	e
a	b	c	d	e

20. True

False

a	b	c	d	e
a	b	c	d	e