



Faculty of Health Sciences
Bachelor of Science Honours in Industrial Pharmaceutical Science
BSM 1122 Medical Terminology
1st Year 1st Semester
End Semester SEQ Based Examination
11th Batch

Date : 17th July 2026
Time : 1.30 p.m. – 3.30 p.m. (Two hours)

INSTRUCTIONS TO CANDIDATES

- This question paper consists of **FOUR** questions in **TWO** pages.
- Answer **ALL** questions.
- You should write the answers in black or blue ink.

Question 1 **(100 marks)**

1.1 Define following components in a medical term.

- 1.1.1. Prefix (20 marks)
- 1.1.2. Suffix (20 marks)
- 1.1.3 Root word (20 marks)

1.2 Define following anatomical planes.

- 1.2.1 Mid sagittal plane (20 marks)
- 1.2.2 Coronal plane (20 marks)

Question 2 **(100 marks)**

2.1 Differentiate followings.

- 2.1.1 Bradycardia and Tachycardia (20 marks)
- 2.1.2 Endocardium and Pericardium (20 marks)
- 2.1.3 Dyspnea vs Apnea (20 marks)

2.2 Define following medical terms.

- 2.2.1 Cholecystectomy (10 marks)
- 2.2.2 Hepatomegaly (10 marks)
- 2.2.3 Esophagoscopy (10 marks)
- 2.2.4 Bronchitis (10 marks)

Question 3 **(100 marks)**

3.1 Analyze following terms, breaking the terms into prefix, root, and suffix.

(10 marks X5 = 50 marks)

Term	Prefix	Root	Suffix	Meaning
3.1.1 Hyperthyroidism				
3.1.2 Hypoglycemia				
3.1.3 Adrenalectomy				
3.1.4 Pancreatitis				

Term	Prefix	Root	Suffix	Meaning
3.1.5 Hypopituitarism				

3.2 Fill in the blanks.

(2 marks x 10 = 20 marks)

- 3.2.1 The suffix _____ means inflammation.
 3.2.2 The root _____ means kidney.
 3.2.3 The medical term polyuria means excessive _____.
 3.2.4 The root _____ refers to the urinary bladder.
 3.2.5 Blood in urine is called _____.
 3.2.6 Surgical removal of a kidney is called _____.
 3.2.7 The suffix _____ means visual examination.
 3.2.8 Inflammation of the urethra is called _____.
 3.2.9 A stone in the kidney is called _____.
 3.2.10 The root my/o refers to _____.

3.3 Define following anatomical directional terms.

- 3.3.1 Superior (10 marks)
 3.3.2 Inferior (10 marks)
 3.3.3 Anterior (10 marks)

Question 4**(100 marks)**

4.1 Define following terms.

- 4.1.1 Neuralgia (10 marks)
 4.1.2 Neuropathy (10 marks)
 4.1.3 Anesthesia (10 marks)
 4.1.4 Meningitis (10 marks)

4.2 Explain the meanings of the following medical terms.

- 4.2.1 Osteectomy (10 marks)
 4.2.2 Tendinitis (10 marks)
 4.2.3 Myositis (10 marks)
 4.2.4 Osteomalacia (10 marks)

4.3 Illustrate the nine regions of the abdomen area.

(20 marks)

Faculty of Health Sciences
Bachelor of Science Honours in Industrial Pharmaceutical Science
Repeat Examination
4th Batch
BSM 1122 Medical Terminology
1st Year 1st Semester
End Semester SEQ Examination

Date : 30th July 2025
Time : 09.00 a.m. – 12.00 p.m. (Three hours)

INSTRUCTIONS TO CANDIDATES

- This question paper consists of **SIX Structured Essay Type Questions**.
- Answer **ALL** questions.
- You should write the answers in black or blue ink.

Question 01 **(100 marks)**

1.1 Define the following terms.

- 1.1.1 Word root (10 marks)
- 1.1.2 Prefix (10 marks)
- 1.1.3 Suffix (10 marks)

1.2 Fill in the blanks in the following table. (6 X 5 marks = 30 marks)

	Prefix	Root	Suffix
1.2.1 Hypothermia	(a)	(b)	(c)
1.2.2 Peritonsillitis	(a)	(b)	(c)

1.3 Define the following terms.

(2 X 5marks = 10 marks)

- 1.3.1 Hypothermia
- 1.3.2 Peritonsillitis

1.4 Write the meaning of the following word roots.

(5 X 6 marks = 30 marks)

- 1.4.1 neph
- 1.4.2 cost
- 1.4.3 lingu
- 1.4.4 angi
- 1.4.5 ped

Question 02 **(100 marks)**

2.1 What is the anatomical position of the human body?

(25 marks)

2.2 Define following terms.

- 2.2.1 Median plane (15 marks)
- 2.2.2 Coronal plane (15 marks)
- 2.2.3 Transverse plane (15 marks)

2.3 Define the following terms.

(5 X 6 marks = 30 marks)

- 2.3.1 Laterosuperior
- 2.3.2 Posteromedial
- 2.3.3 Anterolateral

2.3.4 Mediosuperior

2.3.5 Inferolateral

Question 03**(100 marks)**

3.1 Match following terms with the correct definition in the table. (8 X 5 marks = 40 marks)

3.1.1 cyanosis

3.1.2 angina pectoris

3.1.3 syncope

3.1.4 cardiogenic

3.1.5 cardiodynia

3.1.6 arrhythmia

3.1.7 tachycardia

3.1.8 palpitation

a. sign or symptom that originates from the condition of the heart
b. pounding, racing, or skipping the heartbeat
c. opposite of bradycardia; fast heartbeat
d. pain associated with the heart
e. chest pain or pressure
f. blue tinge in the skin and mucous membranes
g. fainting
h. term that literally means "condition of without rhythm"

3.2 Write the difference between an embolus and thrombus.

(15 marks)

3.3 Define the following terms.

3.3.1. Thrombocytopenia

(15 marks)

3.3.2 Leukocytosis

(15 marks)

3.3.3 Lymphocytosis

(15 marks)

Question 04**(100 marks)**

4.1 Write the meaning of the following terms.

(5 X 6 marks = 30 marks)

4.1.1 rhino

4.1.2 pneumo

4.1.3 pnea

4.1.4 epistaxis

4.1.5 mucolytic

4.2 Write a most appropriate medical term for following descriptions.

(5 X 6 marks = 30 marks)

4.2.1 Pus in the urine

4.2.2 Kidney enlargements

4.2.3 Difficult or painful urination

4.2.4 Inflammation of the kidney

4.2.5 Physical, chemical and microscopic examination of urine

4.3 Write the meaning of the following terms.

(5 X 6 marks = 30 marks)

4.3.1 phagia

4.3.2 cys

4.3.3 cholecysto

4.3.4 adeno

4.3.5 crino

4.4 What is homeostasis?

(10 marks)

Question 05

(100 marks)

5.1 Write the meaning of the following terms.

(5 X 6 marks = 30 marks)

5.1.1 nephrectomy

5.1.2 calculus

5.1.3 micturition.

5.1.4 Cystalgia

5.1.5 nephroma

5.2 Define following cell types.

5.2.1 Osteoblasts

(15 marks)

5.2.2 Osteocytes

(15 marks)

5.2.3 Osteoclasts

(15 marks)

5.3 What is the difference between dysmenorrhea and amenorrhea?

(25 marks)

Question 06

(100 marks)

6.1 Define the following terms.

(5 X 6 marks = 30 marks)

6.1.1 palsy

6.1.2 paraplegia

6.1.3 dementia

6.1.4 hypnotic

6.1.5 analgesic

6.2 Write a most appropriate medical term for the following descriptions.

(5 X 6 marks = 30 marks)

6.2.1 Record of breast

6.2.2 Inflammation of breast

6.2.3 Study of female reproductive system

6.2.4 Use of artificial kidney machine to filter the blood

6.2.5 Withdrawing fluid using suction

6.3 Define the following terms.

(2 X 15 marks = 30 marks)

6.3.1 Goiter

6.3.2 Diabetic neuropathy

6.4 What is ectopic pregnancy?

(10 marks)

**Faculty of Health Sciences****Bachelor of Science Honours in Industrial Pharmaceutical Science****IPS 3253 – Drug Release and Novel Drug Delivery Systems****Batch – 06****3rd year 2nd semester****Mid Semester Examination - SEQ****Date: 19th August 2025****Time: 1.30 p.m. – 2.30 p.m. (One hour)****INSTRUCTIONS TO CANDIDATES**

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

Question 1**(100 marks)**

1.1 Write the definitions for the following.

i. Targeted-release

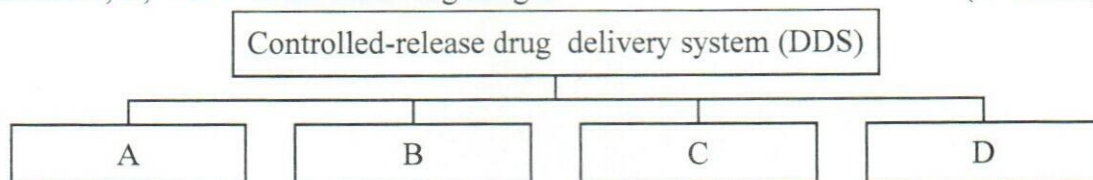
(10 marks)

ii. Repeat action

(10 marks)

1.2 What are A, B, C & D in the following image?

(20 marks)

1.3 Outline **five (5)** advantages of modified-release DDS with justifications.

(30 marks)

1.4 Write a descriptive account of pharmacodynamic considerations with respect to designing of a controlled-release DDS.

(30 marks)

Question 2**(100 marks)**

2.1 What are the limitations of a pH-dependent oral controlled-release DDS?

(20 marks)

2.2 List the types of osmotic systems.

(20 marks)

2.3 Write a short note on the basic mechanism of an osmotic system.

(30 marks)

2.4 Outline the factors affecting altered density systems.

(30 marks)



Faculty of Health Sciences
Bachelor of Science Honours in Industrial Pharmaceutical Science
IPS 4233 – Pharmacognosy II
Batch – 05
4th year 2nd semester
End Semester SEQ Examination

INDEX NUMBER;

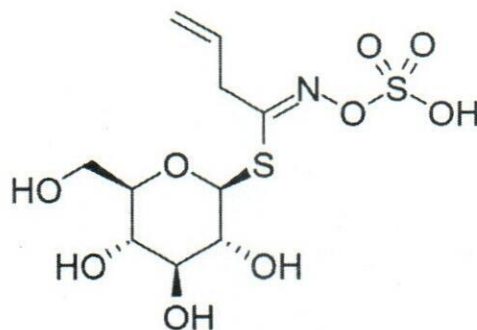
Date : 18th of July 2025
 Time : 09.00 a.m. – 12.00 p.m. (Three hours)

INSTRUCTIONS TO CANDIDATES

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

Question 01

(100 marks)



1.1. Identify the type of glycoside given above based on the linkage. (10 marks)

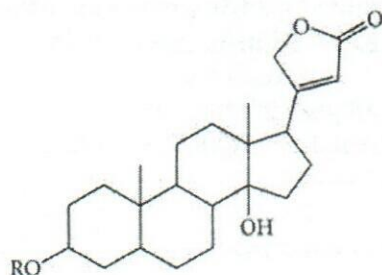
1.2. State **one (01)** plant that contains this specific glycoside. (10 marks)

1.3. Why does this glycoside produce a pungent and pleasant odor when crushed with acetic acid? (30 marks)

1.4.

1.4.1. Identify the type of cardiac glycoside given below.

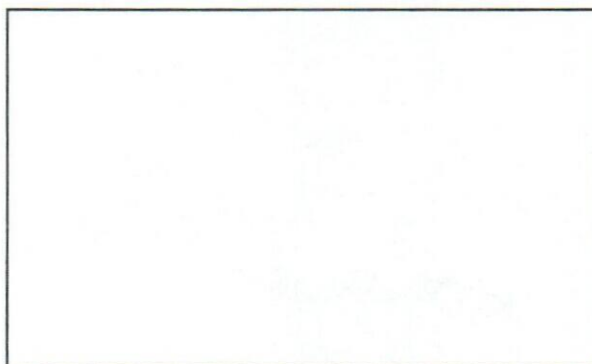
(20 marks)

1.4.2. Mention the scientific name of **one (01)** natural source that contains this glycoside.

(10 marks)

1.4.3. Draw the other type of cardiac glycoside structure based on the above given structure.

(20 marks)

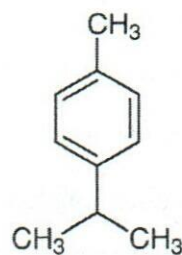
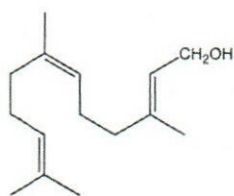
**Question 02**

(100 marks)

2.1. State **three (03)** extraction methods of volatile oils.

(15 marks)

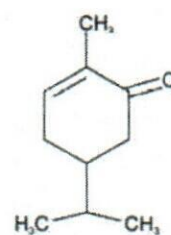
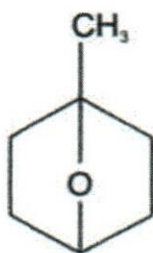
2.2. Identify the types of terpenoids given below according to the isoprene rule. (30 marks)



2.2.1.....

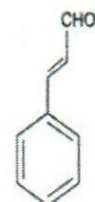
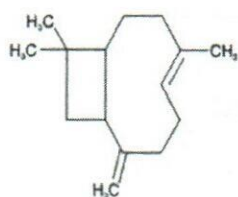
2.2.2.....

2.3. Identify the chemical structures present in the volatile oils given below. (10 marks x 4)



2.3.1.....

2.3.2.....



2.3.4.....

2.3.3.....

2.4. Give **one (01)** chemical identification test for volatile oils.

(15 marks)

.....

Question 03

(100 marks)

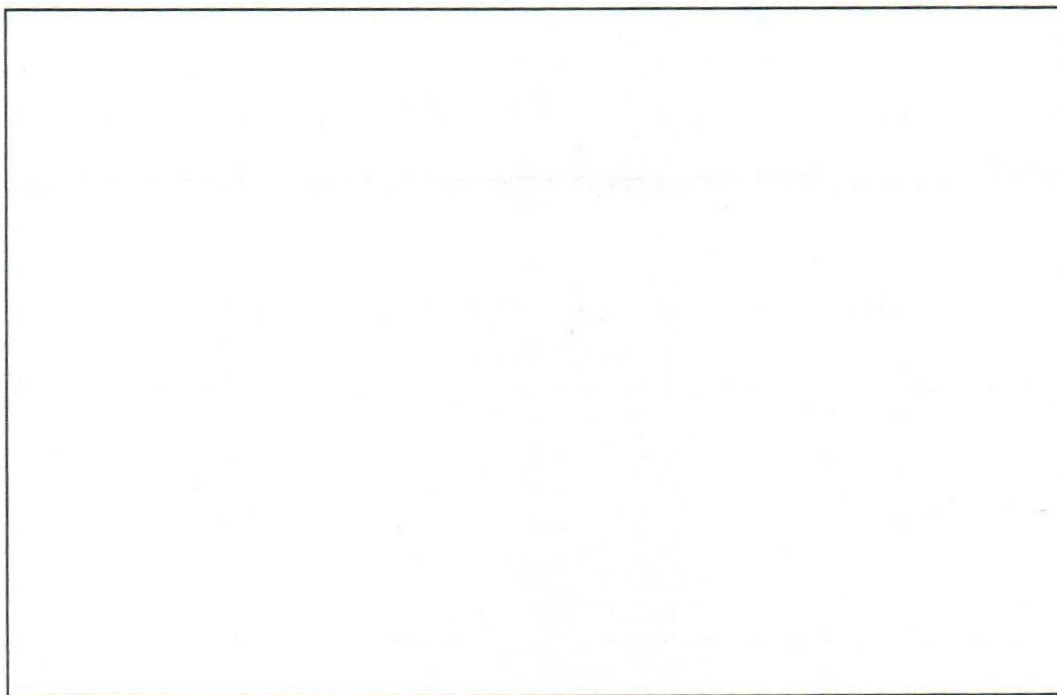
3.1. State the importance of aromatic polyketides.

(20 marks)

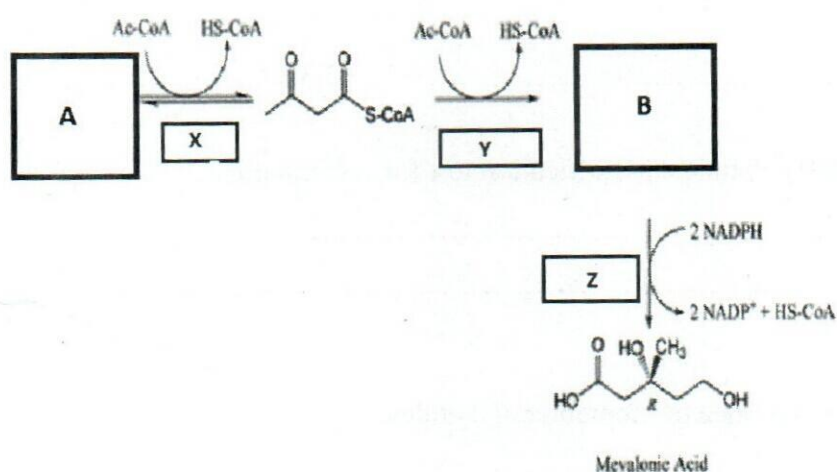
.....

3.2. Outline the synthesis pathway of Erythromycin A.

(30 marks)

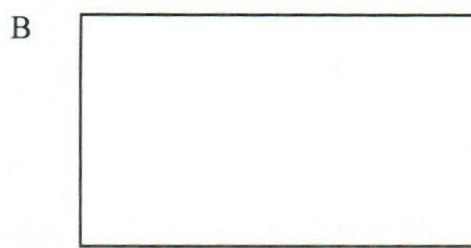
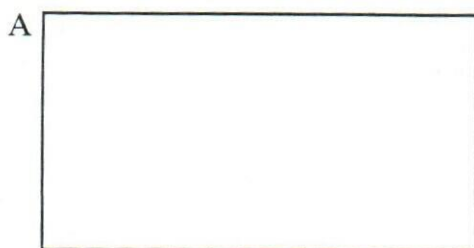


3.3. Given below is the synthesis pathway of Mevalonic acid.



3.3.1. Draw the chemical structures of the compounds A and B and in the given pathway.

(20 marks)



3.3.2. Identify the enzymes X, Y and Z which catalyze the reaction.

(30 marks)

.....

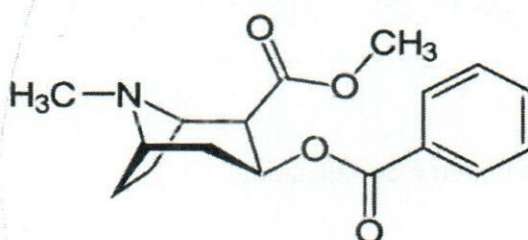
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Question 04

(100 marks)

4.1.



4.1.1. Identify the type of the above given alkaloid.

(10 marks)

.....

4.1.2. State the basis for placing this alkaloid in the given type.

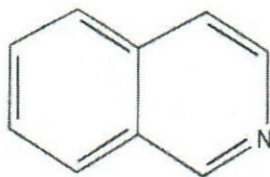
(20 marks)

.....

.....

.....

4.2.



4.2.1. Identify the above mentioned alkaloid ring structure.

(10 marks)

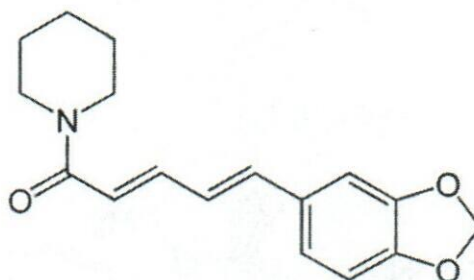
.....

4.2.2. State **one (01)** example for plant alkaloid derived from the alkaloid ring mentioned in 4.2.1.

(20 marks)

.....

4.3.



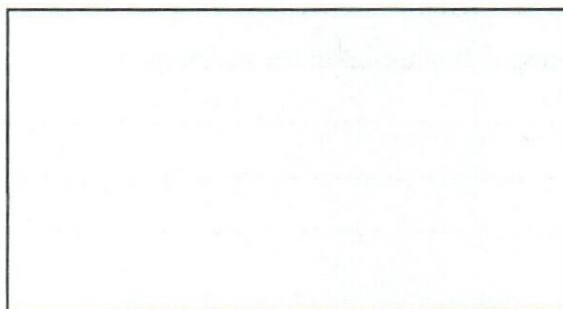
4.3.1. Identify the above mentioned plant alkaloid.

(10 marks)

.....

4.3.2. Draw the main ring structure present in the alkaloid mentioned in 4.3.1.

(20 marks)



4.3.3. State the scientific name of the plant found with the mentioned alkaloid in 4.3.1

(10 marks)

.....

Question 05**(100 marks)**

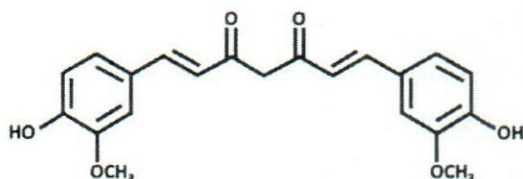
5.1. Outline the classification of pharmaceutical dyes according to their natural sources with an example for each.

(20 marks)

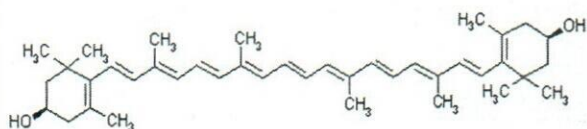
.....

 5.2. Identify the following pharmaceutical dyes by their chemical structures. (15 marks x 2)

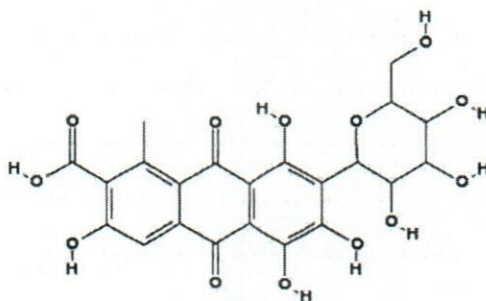
5.2.1.



5.2.2.



5.3.



5.3.1. Identify the above mention chemical structure found in an insect that is responsible for crimson red colour pigment. (10 marks)

.....

5.3.2. State **one (01)** usage of this pharmaceutical dye. (20 marks)

.....

5.4. Give **one (01)** example for the enzymes extracted from following plants. (10 marks x 2)

5.4.1. *Carica papaya* -

5.4.2. *Ananas comosus* -

Question 06

(100 marks)

6.1. List **two (02)** uses of absorbent cotton wool in the pharmaceutical industry. (10 marks)

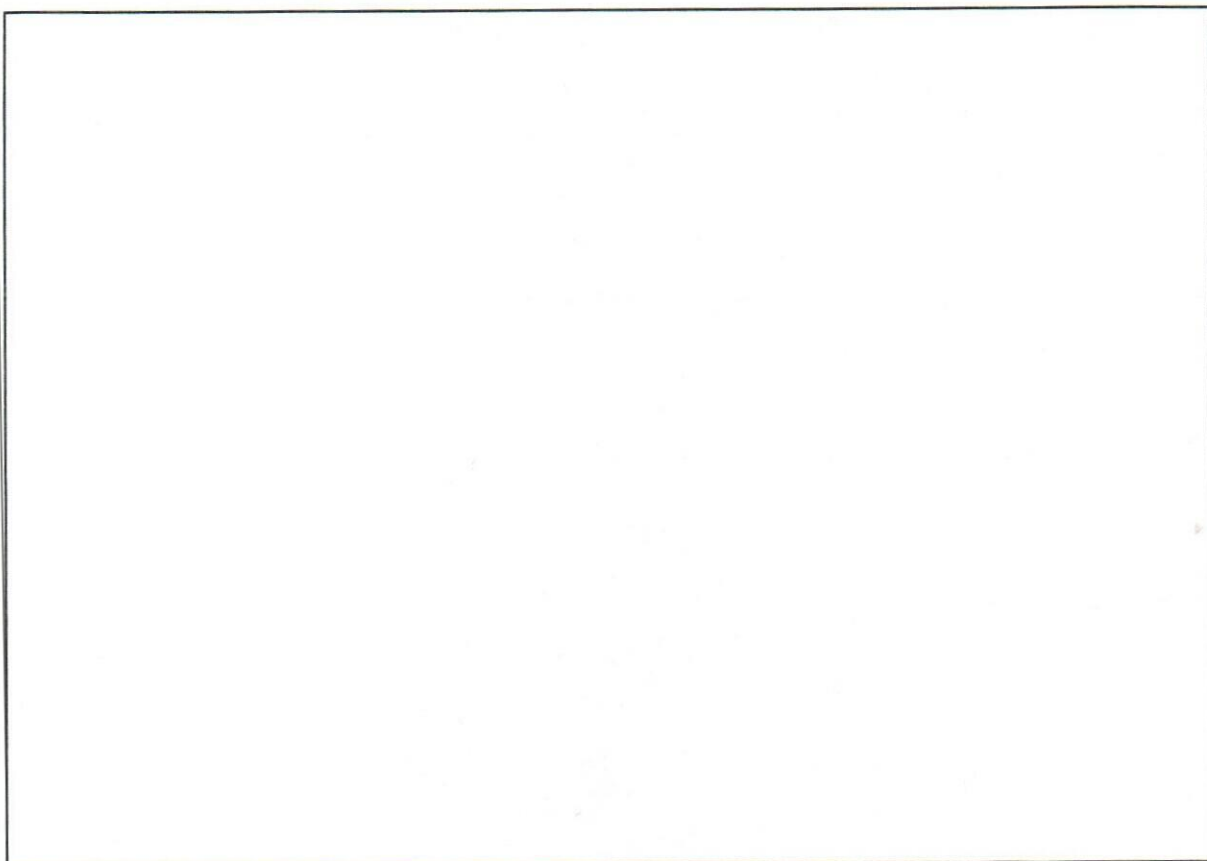
6.2. Outline the steps of preparing jute fiber. (25 marks)

[illegible]

6.3. Write a short note on the biosynthesis of tetraterpenes. (25 marks)

[illegible]

6.4. Illustrate the biosynthetic pathway of tyrosine starting from chorismic acid. (40 marks)





Faculty of Health Sciences
Bachelor of Science Honours in Industrial Pharmaceutical Science
BSM 1122 Medical Terminology
1st Year 1st Semester
End Semester Assignment Based Examination

Date : 18th October 2024
Time : 09.00 a.m. – 11.00 a.m. (Two hours)

INSTRUCTIONS TO CANDIDATES

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

Question 1

(100 marks)

Fill in the blanks from appropriate answers.

- 1.1 The suffix -logy means
- 1.2 A physician who specializes in study and treatment of the skin (dermatology) is a(n)
- 1.3 The singular of vertebrae is
- 1.4 The word that means “pertaining to the heart” is
- 1.5 The singular form of foci is
- 1.6 is a bluish discoloration of the skin due to lack of oxygen.
- 1.7 Development of a blood clot within a vessel is
- 1.8 A word part that appears in front of a root is a(n)
- 1.9 The prefixes macro-, mega-, and megal- all mean
- 1.10 The prefix pseudo- means
- 1.11 A tricuspid structure has
- 1.12 The fundamental unit of each medical word is the.....
- 1.13 A short word part added at the end of a root is a(n)
- 1.14 A root with a vowel added to aid in pronunciation is a(n)
- 1.15 Most medical word parts come from Greek and

1.16 Organ of excretion (roots: ren/o, nephro/o) is the

1.17 The plural of ganglion is

1.18 means "having equal sides."

1.19 The study of the nervous system is

1.20 The prefixes anti- and contra- mean

Question 2

(100 marks)

2.1 Write the appropriate medical term for following.

(5 X 10 marks = 50 marks)

2.1.1 Urine blood condition

2.1.2 Inflammation of the stomach

2.1.3 Study of the kidney

2.1.4 Passage of fluid stool

2.1.5 Loss of blood

2.1.6 Menstrual flow

2.1.7 Study of the mind

2.1.8 White blood cell

2.1.9 Promotes sleep

2.1.10 Male disease

2.2 Compare and contrast the following.

2.2.1 Posterior (Dorsal) body cavity and Anterior (Ventral) body cavity

(25 marks)

2.2.2 Mid sagittal plane and frontal plane

(25 marks)

Question 3

(100 marks)

3.1 Define the following terms.

(5 X 5 marks = 25 marks)

3.1.1 Thyroiditis

3.1.2 Acromegaly.

3.1.3 Polyuria

3.1.4 androgen

3.1.5 Oligospermia

3.2 Define following terms building with a term cyst/o.

(5 X 5 marks = 25 marks)

3.2.1 Cystalgia

3.2.2 Cystectomy

3.2.3 Cystogram

3.2.4 Cystitis

3.2.5 Cystolith

3.3 Compare and contrast followings.

3.3.1 Dysmenorrhea and amenorrhea

(25 marks)

3.3.2 Supine position and prone position

(25 marks)

Question 4**(100 marks)**

4.1 Write the meaning of the following terms.

(5 X 5 marks = 25 marks)

4.1.1 Nephrotomy

4.1.2 Pyelogram

4.1.3 Mastalgia

4.1.4 Fertilization

4.1.5 Fibroids

4.2 Define the following terms.

(5 X 5 marks = 25 marks)

4.2.1 Inferior

4.2.2 Laterosuperior

4.2.3 Medial

4.2.4 Posterior

4.2.5 Anterolateral

4.3 Compare and contrast followings.

4.3.1 Leukocytosis and Leukopenia

(25 marks)

4.3.2 Hyperventilation and hypoventilation

(25 marks)