

Second Professional BHMS Degree Regular Examination, August 2024

Pathology and Microbiology (Hom UG-Path-M) Paper -1

(2022 Scheme)

Time: 3 Hours

Total marks: 100

- Answer all questions to the point neatly and legibly. Do not leave any blank pages between answers. Indicate the question number correctly for the answer in the margin space.
- Answer all parts of a single question together. Leave sufficient space between answers.
- Draw table/diagrams/flow charts wherever necessary.

1. Multiple Choice Questions

(10 x 1 = 10 marks)

The Answers to MCQ Questions (Q.No. i to Q. No. x) shall be written continuously on the first two writing sheets (ie Page No. 3 & 4) only.

i) Which is false about primary union?

- a) Exuberant granulation tissue to fill the gap
- b) Clear margins
- c) Uninfected
- d) Lead to neat linear scar

ii) Which of the following is not a component of the innate immune system?

- a) Natural Killer (NK) cells
- b) Complement system
- c) T lymphocytes
- d) Macrophages

iii) Pellagra is due to the deficiency of

- a) Thiamine
- b) Niacin
- c) Riboflavin
- d) Folate

iv) Which mineral deficiency is associated with goitre?

- a) Calcium
- b) Magnesium
- c) Zinc
- d) Iodine

v) Plummer- Vinson syndrome is a manifestation of

- a) Iron deficiency anaemia
- b) Beta Thalassemia major
- c) Hereditary spherocytosis
- d) Leukaemoid reaction

vi) Reed- Sternberg cells are characteristic of which disease?

- a) Multiple myeloma
- b) Burkitt lymphoma
- c) Hodgkin lymphoma
- d) Follicular lymphoma

vii) Which is the most common type of urinary calculi?

- a) Struvite stone

- b) Uric acid stone
 - c) Cystine stone
 - d) Calcium oxalate stone
- viii) Which of the following is not a common cause of liver cirrhosis?
- a) Acute Hepatitis A
 - b) Chronic Hepatitis B
 - c) Alcohol abuse
 - d) Non- alcoholic fatty liver disease
- ix) Which among the following is a pre-malignant lesion of the skin?
- a) Bowen disease
 - b) Impetigo
 - c) Lichen planus
 - d) Calcinosi cutis
- x) Which condition is characterised by the progressive loss of cartilage in joints leading to pain and stiffness?
- a) Rheumatoid arthritis
 - b) Osteoarthritis
 - c) Osteoporosis
 - d) Gout

Short Answer Questions

(8x5=40 marks)

2. Define cell Injury. What are the primary causes of cell injury? List the morphological changes in Reversible cell injury.
3. Define Gangrene. Discuss the contrasting features of Dry and Wet gangrene.
4. Explain Type 1 Hypersensitivity with examples.
5. What are the signs and symptoms of Vitamin A deficiency? Name the dietary sources of Vitamin A.
6. List the risk factors in Atherosclerosis.
7. Explain the mechanism of lymphatic spread of malignant tumours .
8. Describe the pathologic phases of Lobar pneumonia.
9. State the major differences between Rheumatoid arthritis and Osteoarthritis.

Long Answer Questions

(5x10=50 marks)

10. List the Chemical mediators of Inflammation. Explain their role and functions.
11. Define Carcinogens. List 5 carcinogens. Describe the three sequential stages in chemical carcinogenesis.
12. Define Oedema. Describe the pathogenesis of oedema.
13. Discuss the distinguishing features of Duodenal ulcer and Gastric ulcer.
14. Describe the diagnosis of Myocardial Infarction.
