

Question Paper

Exam Date & Time: 01-Feb-2023 (10:20 AM - 01:00 PM)

SECOND PROFESSIONAL YEAR MBBS DEGREE EXAMINATION - FEBRUARY 2023

SUBJECT: PATHOLOGY - PAPER I

(CBME BATCH)

Marks: 80

Duration: 160 mins.

All questions are compulsory.

Illustrate your answers with diagrams flow charts, tables etc wherever necessary.

Main Question:

1) Define metastasis. Discuss the different modes of metastasis. Describe steps of metastatic cascade with a neat, labelled diagram.

(1+4+5 = 10 marks)

2) A 29-year-old woman presents with weakness, easy fatigability, tingling and numbness of hands and feet for 2 months. On examination, pallor was present. The following were her blood parameters. Haemoglobin-9 gm%, Total WBC count-3100/mm³, Platelet count 1.25 lakh/mm³, MCV=105 fL, MCHC= 31g/dL.

2A) What is the diagnosis? (1 mark)

2B) Discuss the peripheral smear, bone marrow findings and biochemical investigations in this condition.

(6 marks)

2C) List the causes for this condition. (3 marks)

3. **Short Notes:**

3A) Describe the chromosomal abnormality and list the clinical features of Down syndrome. (4 marks)

3B) A 28-year-old female presented with low grade fever and cough. Radiological investigations revealed multiple fibrocavitary lesions in the lung. Mantoux test was positive. Describe the microscopic features of the lesion. (4 marks)

3C) List the differences between benign and malignant tumors in a tabular format. (4 marks)

3D) Discuss the role of complements in inflammation. (4 marks)

3E) A 56-year-old male presented with backpain, multiple lytic lesions in the skull on X-ray and raised erythrocyte sedimentation rate. Discuss the laboratory investigations that aid in the diagnosis.

(4 marks)

3F) Differentiate healing by primary intention and secondary intention. (4 marks)

3G) Discuss the peripheral smear findings in chronic myeloid leukemia. (4 marks)

3H) A 56-year-old male develops generalized edema following an attack of myocardial infarction. Describe the mechanism of edema in this patient. (4 marks)

- 3I) Describe the types of necrosis with examples. (4 marks)
- 3J) Enumerate and discuss the transfusion reactions. (4 marks)
- 3K) A 3-month-old child presented with bilateral tumors in the eyeball with white reflex. Discuss the role of gene involved and Knudson hypothesis. (4 marks)
- 3L) Discuss clinical features and laboratory work up for Haemophilia. (4 marks)
- 3M) Describe fate of a thrombus. (4 marks)
- 3N) Enumerate the special stains used to demonstrate Amyloid. (4 marks)
- 3O) Describe Reed- Sternberg cell and its variants. (4 marks)

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Question Paper

Exam Date & Time: 03-Feb-2023 (10:00 AM - 01:00 PM)

SECOND PROFESSIONAL YEAR MBBS DEGREE EXAMINATION - FEBRUARY 2023

SUBJECT: PATHOLOGY - PAPER II

(CBME BATCH)

Marks: 80

Duration: 160 mins.

Answer all the questions.

Illustrate your answers with diagrams wherever necessary.

1. A middle aged known smoker presented with persistent cough with expectoration and evening raise in temperature since two weeks. Chest x ray identified consolidation in the lower portion of the upper lobe of right lung. Hilar lymphadenopathy was noted. Sputum examination detected acid fast bacilli.

- 1A) What is the most probable diagnosis? (1 mark)
- 1B) Discuss the pathogenesis. (4 marks)
- 1C) Describe the gross and microscopic findings. (4 marks)
- 1D) Mention two complications. (1 mark)

2. Classify renal cell carcinoma. Mention its four associated syndromes. Describe its gross morphology. (3+4+3 = 10 marks)

3. Short notes:

- 3A) Describe the morphology of rheumatic heart disease. (4 marks)
- 3B) Discuss the stages of lobar pneumonia. (4 marks)
- 3C) Discuss the pathogenesis and mention two complications of bronchiectasis. (4 marks)
- 3D) Discuss the pathogenesis of atherosclerosis. (4 marks)
- 3E) Describe the morphology of seminoma testis. (4 marks)
- 3F) Describe the pathogenesis of complete and partial mole. (4 marks)
- 3G) Describe the morphology of leiomyoma. (4 marks)
- 3H) Describe eight prognostic factors for invasive breast carcinoma. (4 marks)
- 3I) Discuss the gross and microscopic features of gastric adenocarcinoma. (4 marks)
- 3J) Mention four risk factors and describe the gross features of peptic ulcer disease. (4 marks)
- 3K) Discuss the lab investigations of hepatitis B. (4 marks)
- 3L) Mention four important differences between crohn disease and ulcerative colitis. (4 marks)
- 3M) Describe the morphology of melanoma. (4 marks)
- 3N) Discuss morphology of osteosarcoma. (4 marks)
- 3O) A 32 year old female presented with nodular thyroid enlargement. Thyroid profile and anti TPO were within normal limits. Fine needle aspiration yielded 5ml of brownish fluid. What is the most probable diagnosis? Describe the histomorphology of this lesion. (4 marks)

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