

# Question Paper

Exam Date & Time: 17-Apr-2024 (10:20 AM - 01:00 PM)



**MANIPAL ACADEMY OF HIGHER EDUCATION**  
**SECOND PROFESSIONAL YEAR MBBS DEGREE EXAMINATION - APRIL 2024**  
**SUBJECT: PATHOLOGY PAPER II**  
**(REPEATERS - CBME BATCH)**

**Marks: 80**

**Duration: 160 mins.**

**Answer all the questions.**

**Illustrate your answers with diagrams wherever necessary.**

**Essays:**

1. A 65-year-old woman presented with progressive ascites, weight loss and cachexia. Abdominal imaging finding revealed bilateral ovarian mass with peritoneal deposits and ascitic fluid cytology showed malignant cells arranged in papillary architecture. Serum CA 125 was markedly elevated.

1A) What is the diagnosis? (2)

1B) Describe the morphology of this tumor. (4)

1C) Mention the classification of ovarian tumors. (4)

2. Define emphysema. Describe the etiopathogenesis of emphysema. Mention the morphological subtypes. (2+4+4 = 10 marks)

**3. Short notes:**

3A) Outline the 'response to injury hypothesis' in pathogenesis of atherosclerosis. (4)

3B) Describe the types of aneurysms with diagrams. (4)

3C) Describe the morphology and complications of infective endocarditis. (4)

3D) Discuss the etiopathogenesis of bronchiectasis. (4)

3E) List the risk factors for peptic ulcer disease. (4)

3F) Mention the laboratory diagnostic differences between pre-hepatic and post hepatic jaundice. (4)

3G) Outline the adenoma-carcinoma sequence in carcinoma of colon. (4)

3H) Discuss the morphology of alcoholic hepatitis. (4)

3I) Tabulate the differences between nephrotic and nephritic syndromes. (4)

3J) Discuss the pathogenesis of nodular prostatic hyperplasia. (4)

3K) Describe the pathogenesis of renal stones. (4)

3L) Describe the morphology of fibroadenoma of breast. (4)

3M) A 60-year-old uncontrolled diabetic developed gradual onset renal failure. Describe the pathogenesis of this complication. (4)

3N) Outline the morphologic features of osteosarcoma. (4)

3O) An elderly woman presented with a large ulcer having rolled borders on the ala of nose with extensive local invasion into adjacent facial tissue. Wide local excision of the ulcer was curative. Describe the morphologic features of this skin tumor. (4)

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