

MANIPAL ACADEMY OF HIGHER EDUCATION
SECOND MBBS DEGREE EXAMINATION – DECEMBER 2024

SUBJECT: PATHOLOGY – PAPER I (ESSAY)

(OLD REGULATION - 2018-19 & PRIOR BATCH)

Tuesday, December 24, 2024

Time: 10:20 – 13:00 Hrs.

Maximum Marks: 80

 **Answer ALL the questions.**

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

 **Long Questions:**

1. Discuss the role of viruses in carcinogenesis
(10 marks)

2. 45-year-male presented with increased tiredness and dragging sensation in the left hypochondrium for last six months. On examination he had massive splenomegaly. Laboratory investigations revealed a total WBC count of 2,35,000 cells/ mm³ and a markedly reduced LAP score.

2A) What is your diagnosis?

2B) What is the molecular basis of this disease?

2C) What are the peripheral smear findings in this condition?

(2+2+6 = 10 marks)

3. **Write short notes on:**

3A. Discuss the types of necrosis with suitable examples

3B. Describe phagocytosis with the help of a suitable diagram

3C. Enumerate and discuss the factors that influence tissue repair

3D. Discuss the pathogenesis of HIV infection

3E. Describe the etiology and morphology of Gaucher's disease

3F. Discuss the types of Coombs test and its uses in diagnosis

3G. Describe the morphology, immunophenotype and clinical features of Burkitt lymphoma

3H. Discuss the pathophysiology of thrombus formation

3I. Discuss the pathogenesis of complications of Diabetes mellitus

3J. Define paraneoplastic syndrome. Classify paraneoplastic syndromes with suitable examples

3K. Describe the peripheral smear and bone marrow findings in Megaloblastic anemia

3L. Describe the pathogenesis of primary tuberculosis

3M. Discuss the investigations in Idiopathic thrombocytopenic purpura

3N. Describe the clinical features and laboratory diagnosis of Hemophila A

3O. Illustrate with appropriate diagram the role of p53 in cell cycle

(4 marks × 15 = 60 marks)



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SUBJECT: PATHOLOGY - PAPER II (ESSAY)

(OLD REGULATION - 2018-19 & PRIOR BATCH)

Thursday, December 26, 2024

Time: 10:20 – 13:00 Hrs.

Maximum Marks: 80

 **Answer ALL the questions.**

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

1. A 65-year old man complains of fever with chills and rigors, fatigue, increasingly severe productive cough, with rusty sputum for the last 6 days. On examination, crepitations and ronchi were heard over the lower lobe of left lung. Chest X- ray showed lower lobe consolidation. He was treated in the hospital and completely recovered.

1A. What is the diagnosis?

1B. List the etiological factors for this condition

1C. Discuss the pathology in various stages of this condition

1D. What are the likely complications?

(1+2+4+3 = 10 marks)

2. Classify ovarian tumours. Describe the etiopathogenesis, morphology, clinical presentation and spread of ovarian surface epithelial tumors.

(2+2+4+1+1 = 10 marks)

3. **Write short notes on:**

3A. Describe the risk factors for atherosclerosis

3B. Describe the gross and microscopic features of seminoma

3C. Morphology of Wilms tumour

3D. Tabulate and compare between typhoid and tuberculous ulcer of intestine

3E. Describe the gross and microscopic features of Crohn disease

3F. Describe the etiopathogenesis of poststreptococcal glomerulonephritis

3G. Describe the gross and microscopy of osteoclastoma

3H. Lab diagnosis of hepatitis B infection

3I. List the complications of myocardial infarction

3J. Describe the morphology of fibroadenoma

3K. Discuss the etiopathogenesis of peptic ulcer disease

3L. Mention the complications of diabetes mellitus

3M. List the causes of hydronephrosis

3N. Morphology of chronic rheumatic heart disease

3O. CSF findings in tuberculous meningitis

(4 marks × 15 = 60 marks)

