

MANIPAL UNIVERSITY**SECOND MBBS DEGREE EXAMINATION – NOV/DEC 2015****SUBJECT: PATHOLOGY – PAPER I (ESSAY)**

Monday, November 23, 2015

Time: 10:20 – 13:00 Hrs.

Maximum Marks: 80

✍ **All questions are compulsory.**

✍ **Illustrate your answers with diagrams, flow charts, tables etc wherever required.**

1. Define edema. Describe the pathophysiologic categories of edema. Tabulate the differences between exudate and transudate.

(1+5+4 = 10 marks)

2. A 26 year old female presented with complains of fever and joint pains for last 6 months. She also gives history of development of skin rashes on exposure to the sunlight. On examination the clinician found a butterfly rash over the face and oral ulcers. Serologic investigations were performed for diagnosis.

2A. What is the diagnosis of this patient?

2B. Describe the etiopathogenesis of this disorder

2C. Describe the morphology of kidney in this condition

(1+4+5 = 10 marks)

3. **Write short notes on:**

3A. Steps involved in chemical carcinogenesis along with flow chart

3B. Turner syndrome

3C. Laboratory diagnosis of multiple myeloma

3D. Tabulate differences between benign and malignant tumors

3E. Fate of thrombus

3F. Morphology of Reed-sternberg cell

3G. Laboratory diagnosis of B₁₂ deficiency anemia

3H. Causes of metastatic calcification

3I. Pathophysiology of disseminated intravascular coagulation

3J. Steps involved in phagocytosis with help of a diagram

3K. Molecular pathogenesis of chronic myeloid leukemia

3L. Factors influencing development of an infarct

3M. Pathogenesis of primary pulmonary tuberculosis

3N. Morphologic changes in apoptosis

3O. Steps involved in metastatic cascade with the help of a diagram

(4 marks × 15 = 60 marks)



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SUBJECT: PATHOLOGY - PAPER II (ESSAY)

Tuesday, November 24, 2015

Time: 10:20 – 13:00 Hrs.

Maximum Marks: 80

✍ **All questions are compulsory.**

✍ **Illustrate your answers with diagrams, flow charts, tables etc. wherever required.**

1. Discuss the etiopathogenesis and morphology of pyogenic osteomyelitis. List four complications of chronic osteomyelitis.

(3+5+2 = 10 marks)

2. A 30 year old male presented to the outpatient department with history of recurrent attacks of mild diarrhea and abdominal pain. Endoscopic examination revealed aphthous ulcers in ileocaecal region with luminal narrowing.

2A. What is your diagnosis?

2B. Describe the gross and microscopic features of this disease

2C. List the complications of the same

(2+6+2 = 10 marks)

3. **Write short notes on the following:**

3A. Clinical features, cytogenetics and microscopy of Wilm's tumor

3B. Pathogenesis of acute pancreatitis

3C. Teratoma

3D. Morphology of urothelial tumors

3E. Gross and microscopy of Lobar pneumonia

3F. Pre-cancerous lesions of skin

3G. Classification of testicular tumors

3H. Using labeled diagrams illustrate the pathogenesis of atherosclerosis

3I. Sequence of serologic markers for acute hepatitis B virus infection using appropriate diagram

3J. Evolution of gross morphologic changes in Myocardial infarction

3K. Gross and microscopic findings in Rapidly Progressive Glomerulonephritis

3L. HSIL of cervix

3M. Papillary carcinoma thyroid

3N. Tabulate the differences between tubercular and pyogenic meningitis

3O. Types of Emphysema

(4 marks × 15 = 60 marks)

