

MANIPAL ACADEMY OF HIGHER EDUCATION

SECOND MBBS DEGREE EXAMINATION – NOVEMBER/DECEMBER 2019

SUBJECT: PATHOLOGY – PAPER I (ESSAY)

Monday, November 25 2019

Time: 10:20 – 13:00 Hrs.

Maximum Marks: 80

✍ Answer ALL the questions.

✍ Illustrate your answers with diagrams wherever necessary.

1. Define neoplasia. With the help of a well labeled diagram, discuss the steps of metastatic cascade of malignant tumors.

(2+8 = 10 marks)

2. A 40 year old labourer, a non smoker, presented to the medicine out patient department with low grade remitting fever and progressively increasing productive cough since one month. His chest X-ray revealed bilateral apical consolidation of the lungs.

2A. What is your diagnosis?

2B. Discuss the pathogenesis of the above condition.

2C. What are its complications?

(1+6+3 = 10 marks)

3. Write short notes on:

3A. Mechanism of T cell immunodeficiency in HIV infection

3B. Laboratory diagnosis of multiple myeloma

3C. Pathogenesis of sickle cell disease

3D. Mechanisms of angiogenesis

3E. Morphological types of infarcts

3F. Biological function of complement system

3G. Laboratory diagnosis of aplastic anemia

3H. Virchows triad

3I. Mechanism of increased vascular permeability in inflammation

3J. Diagrammatic representation of pathophysiology of disseminated intravascular coagulation

3K. Morphologic features of chronic inflammation

3L. Molecular pathogenesis of chronic myeloid leukemia

3M. Klinefelter syndrome

3N. Von Willebrand disease

3O. Glomerular lesions in diabetic nephropathy

(4 marks × 15 = 60 marks)



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SECOND MBBS DEGREE EXAMINATION – NOVEMBER/DECEMBER 2019

SUBJECT: PATHOLOGY - PAPER II (ESSAY)

Tuesday, November 26, 2019

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. List the etiological factors of peptic ulcer disease. Discuss its pathogenesis. List the complications of gastric ulcers.

(2+5+3 = 10 marks)

2. A 55-year-old male complained of severe chest pain radiating to the left jaw and arm. His serum showed an increase in MB fraction of creatine kinase and lactate dehydrogenase.

2A. What is your diagnosis?

2B. Describe the evolution of morphologic changes in the above condition.

2C. List six complications of the above condition.

(2+5+3 = 10 marks)

3. Write short notes on:

3A. Etiology of bronchiectasis

3B. Morphology of leiomyoma

3C. Morphology of pleomorphic adenoma

3D. Morphology of malignant melanoma

3E. Morphology of heart in infective endocarditis

3F. Radiologic and morphologic features of giant cell tumor

3G. Morphology of seminoma

3H. Pathogenesis of gallstones

3I. Morphology of fibroadenoma

3J. Morphology of vesicular mole

3K. Morphology of classical renal cell carcinoma

3L. CSF findings of tubercular meningitis

3M. Pathogenesis of acute pyogenic osteomyelitis

3N. Etiopathogenesis of multinodular goiter

3O. Etiology, morphology and electron microscopy of minimal change disease

(4 marks × 15 = 60 marks)

