

# MANIPAL UNIVERSITY

## SECOND MBBS DEGREE EXAMINATION – DECEMBER 2016

### SUBJECT: PATHOLOGY – PAPER I (ESSAY)

Monday, December 19, 2016

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 Neoplasia. Discuss in detail the steps involved in mechanism of invasion and metastasis.

(10 marks)

2. A man aged forty presented to the Medicine clinic with a history of persistent cough with evening rise of temperature over a period of 4 months, with associated loss of appetite and a reduction in weight. Examination revealed matted cervical lymph nodes. An X ray chest done showed a small radiopaque focus in the apex of the upper lobe of right lung.

2A. What is your diagnosis?

2B. Describe in detail the pathogenesis of this disease.

2C. Describe the microscopic features associated with this lesion.

2D. Enumerate the complications associated with this condition.

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

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

3A. Any four types of necrosis with examples

3B. Enumerate FAB Classification of Acute Myeloid Leukemia

3C. Healing by first intention

3D. Fate of a thrombus

3E. Pathogenesis of complications of Diabetes Mellitus

3F. Types of Reed Sternberg Cells

3G. Amniotic fluid embolism

3H. Briefly describe the vascular changes in acute inflammation

3I. The microscopic picture in Burkitt Lymphoma

3J. Laboratory investigation in a case of Hereditary spherocytosis

3K. Coomb's test

3L. Acute idiopathic thrombocytopenic purpura

3M. Diagrammatic representation of the pathogenesis of Septic shock

3N. Types of Infarct

3O. Etiology, clinical features, organs involved and microscopy of Niemann Pick disease in brief.

(4 marks × 15 = 60 marks)



**MANIPAL UNIVERSITY****SECOND MBBS DEGREE EXAMINATION – DECEMBER 2016****SUBJECT: PATHOLOGY - PAPER II (ESSAY)**

Tuesday, December 20, 2016

Time: 10:20 – 13:00 Hrs.

Maximum Marks: 80

✍ **Answer ALL the questions.**

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

1. List the causes for ulcers in the intestines. Discuss the differential diagnosis of the two conditions that have granulomatous inflammation.

(4+6 = 10 marks)

2. An otherwise healthy 72 year-old-man develops severe chest pain radiating down his left arm, sweating and nausea. The patient is hospitalized, progresses to congestive cardiac failure and expires after 21 days without improvement of his general condition.

2A. What is your diagnosis?

2B. What will the morphology of the heart be at autopsy in this condition?

2C. What is the morphology of the lungs, liver and spleen in this condition?

(1+4+5 = 10 marks)

3. **Write short notes on**

3A. Morphology of pleomorphic adenoma

3B. Macroscopic differences between primary and secondary pulmonary tuberculosis

3C. Classification of cirrhosis

3D. Etiology of bronchiectasis

3E. Causes of acute tubular necrosis

3F. Morphology of Phyllodes tumor

3G. Microscopic features of nodular prostatic hyperplasia

3H. CSF findings in pyogenic meningitis

3I. Stages of fracture healing

3J. Pathogenesis of Hashimoto thyroiditis

3K. Types of gall stones

3L. Etiology of squamous cell carcinoma of the skin

3M. Prognostic factors in breast carcinoma

3N. Morphology of dissecting aneurysm

3O. Mention the WHO classification of ovarian tumors

(4 marks × 15 = 60 marks)

