

MANIPAL UNIVERSITY

SECOND MBBS DEGREE EXAMINATION – MAY 2014

SUBJECT: PATHOLOGY – PAPER I (ESSAY)

Friday, May 02, 2014

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 Acute inflammation. Discuss the mechanism of phagocytosis and killing of microbes
(2+8 = 10 marks)
2. A 60 yr old male patient was brought to the hospital with history of weakness and lethargy since 6 mths. On examination he had mild pallor and massive splenomegaly extending upto the umbilicus. He had no palpable lymph nodes. Lab reports showed a total WBC count of 1.5 lakh cells/ mm³.
 - 2A. What is your diagnosis? Justify
 - 2B. Discuss the lab diagnosis of this condition
 - 2C. Name the molecular test that you would do to confirm your diagnosis(2+7+1 = 10 marks)

3. Write short notes on:

- 3A. Briefly discuss the factors that influence development of an infarct
- 3B. Morphology of spleen in Amyloidosis
- 3C. Role of Retinoblastoma gene in tumor suppression
- 3D. Pathogenesis of Delayed type hypersensitivity reaction
- 3E. Lab diagnosis of Hemophilia A
- 3F. Define metaplasia and give examples
- 3G. Define any four types of necrosis with examples
- 3H. Etiology and types of Niemann Pick disease
- 3I. Fate of a thrombus
- 3J. List the late complications of Diabetes Mellitus
- 3K. Mechanism of tumor invasion of extracellular matrix
- 3L. Differences between Tuberculoid and Lepromatous leprosy
- 3M. Morphology of chronic venous congestion of lung
- 3N. Factors affecting wound healing
- 3O. Down syndrome

(4 marks×15 = 60 marks)



MANIPAL UNIVERSITY
SECOND MBBS DEGREE EXAMINATION – MAY 2014
SUBJECT: PATHOLOGY - PAPER II (ESSAY)

Saturday, May 03, 2014

Time: 10:20 – 13:00 Hrs.

Maximum Marks: 80

Answer all questions. Illustrate your answers with diagrams wherever necessary.

1. Define cirrhosis. Mention the types. Discuss the pathophysiology of Laennec cirrhosis. List the complications.

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

2. A 65-year-old male presented with hemoptysis, chest pain and supraclavicular lymphadenopathy of two months duration. Clinical examination revealed mass lesion in the hilus and upper lobe of lung. Lobectomy was performed following several investigations.

2A. What is the diagnosis?

2B. List the investigations done to confirm the lesion.

2C. Discuss the etiopathogenesis.

2D. Describe both gross and microscopic morphology.

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

3. Write short notes on:

3A. Morphology of papillary carcinoma of thyroid gland

3B. Pathogenesis of atherosclerosis

3C. Laboratory diagnosis of myocardial infarction

3D. Etiopathogenesis of colorectal neoplasia

3E. Prognostic factors of melanoma

3F. Cancer screening of cervix

3G. CSF analysis findings in meningitis

3H. List the cystic diseases of kidney and describe the gross morphology of adult polycystic kidney disease

3I. Morphology of meningioma

3J. Clinical features and morphology of tetralogy of Fallot

3K. Morphology of kidney in diffuse proliferative glomerulonephritis

3L. Pathogenesis and morphology of Hashimoto's thyroiditis

3M. Morphology of invasive ductal carcinoma

3N. Types and morphology of endometrial hyperplasia

3O. Morphology of seminoma

(4 marks×15 = 60 marks)

