

MANIPAL ACADEMY OF HIGHER EDUCATION
SECOND MBBS DEGREE EXAMINATION – AUGUST 2020
SUBJECT: PATHOLOGY – PAPER I (ESSAY)

Tuesday, August 04 2020

Time: 10:20 – 13:00 Hrs.

Maximum Marks: 80

✍ **Answer ALL the questions.**

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

1. Define necrosis. Mention the six patterns / types with suitable examples, and three types of nuclear changes that can be seen in necrosis with diagram.

(2+3+5 = 10 marks)

2. A 50-year-old male presents with weakness, fatigability and abdominal discomfort for the last 7 months. On examination he was anemic and had massive splenomegaly. His peripheral blood smear examination confirmed the clinical diagnosis. He was admitted to the oncology ward for further treatment.

2A. What is the probable diagnosis?

2B. Describe the chromosomal abnormality associated with this disease.

2C. Describe the peripheral smear finding of the above condition.

(2+4+4 = 10 marks)

3. **Write short notes on:**

3A. Fate of thrombus

3B. Describe complications of wound healing.

3C. Mention the various techniques used in the laboratory diagnosis of tumors.

3D. Mention the chromosomal abnormality and features of Klinefelter syndrome.

3E. Type I hypersensitivity reaction

3F. Describe steps in phagocytosis occurring in acute inflammation.

3G. Etiology and pathogenesis of fat embolism

3H. Different sites of primary tuberculosis, its components and fate

3I. List the different routes of spread of malignant tumors with examples

3J. Mention the four neoplasms associated with HIV/AIDS and related etiologic agents

3K. Classification and WHO criteria for diagnosis of diabetes mellitus

3L. Peripheral blood smear in megaloblastic anemia

3M. Hemophilia A – mode of inheritance and laboratory findings

3N. List the methods of ESR estimation and clinical significance of ESR

3O. Appearance of Reed Sternberg cell and its variants

(4 marks × 15 = 60 marks)



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SUBJECT: PATHOLOGY - PAPER II (ESSAY)

Wednesday, August 05, 2020

Time: 10:20 – 13:00 Hrs.

Maximum Marks: 80

✍ **Answer ALL the questions.**

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

1. Discuss the prognostic and predictive factors of carcinoma breast.

(10 marks)

2. A 35 year old male presented to the outpatient department with history of recurrent attacks of bloody mucoid diarrhea. On colonoscopy, the distal colon revealed multiple ulcers with pseudopolyps.

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:**

3A. Minimal change disease

3B. Tabulate the differences between complete and partial mole

3C. Morphology of lung in lobar pneumonia

3D. Tabulate the differences between tuberculous and pyogenic meningitis

3E. Types of renal stones

3F. Morphology and types of Seminoma

3G. Giant cell tumor

3H. Briefly discuss the pathogenesis of Emphysema

3I. Using labeled diagrams illustrate morphological features of acute hepatitis

3J. Complications of atherosclerotic plaque

3K. Linitis Plastica

3L. Evolution of microscopic changes in myocardial infarction

3M. Briefly discuss pathogenesis and morphology of Hashimoto thyroiditis

3N. Morphology of Papillary carcinoma thyroid

3O. Hepatocellular carcinoma- morphology and types

(4 marks × 15 = 60 marks)

