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MANIPAL ACADEMY OF HIGHER EDUCATION
SECOND MBBS DEGREE EXAMINATION – NOVEMBER 2023

SUBJECT: PATHOLOGY – PAPER I (ESSAY)

(OLD REGULATION - 2018-19 & PRIOR BATCH)

Thursday, November 02, 2023

Time: 10:20 – 13:00 Hrs.

Maximum Marks: 80

✍ Answer ALL the questions.

✍ Use suitable diagrams wherever necessary.

✍ Long Questions:

1. Define neoplasia. Discuss the mechanism of chemical and viral oncogenesis.
(1+3+6 = 10 marks)

2. Discuss the pathogenesis of primary and secondary tuberculosis. Describe the morphology of lung in secondary tuberculosis. Write a note on primary progressive tuberculosis.
(4+4+2 = 10 marks)

3. Write short notes on:

3A. Pathology and clinical features of Gaucher disease

3B. Pathogenesis of long term complications of diabetes mellitus

3C. Klinefelter syndrome

3D. Pathways of spread in malignant neoplasms with suitable examples

3E. Etiopathogenesis and clinical features of amniotic fluid embolism

3F. Pathogenesis of edema in congestive cardiac failure

3G. Classification of amyloidosis and special stains used for the diagnosis of amyloid

3H. Mechanism of type III hypersensitivity with suitable examples

3I. Laboratory diagnosis of megaloblastic anemia

3J. Pathogenesis and clinical features of fetal immune hydrops

3K. Classification and diagnosis of beta thalassemia

3L. Inheritance pattern, clinical features and laboratory diagnosis of hemophilia A

3M. Tabulate the difference between apoptosis versus necrosis

3N. Paraneoplastic syndromes with suitable examples

3O. Etiology and clinical features of transfusion related acute lung injury

(4 marks × 15 = 60 marks)



MANIPAL ACADEMY OF HIGHER EDUCATION
SECOND MBBS DEGREE EXAMINATION – NOVEMBER 2023

SUBJECT: PATHOLOGY - PAPER II (ESSAY)
(OLD REGULATION - 2018-19 & PRIOR BATCH)

Saturday, November 04, 2023

Time: 10:20 – 13:00 Hrs.

Maximum Marks: 80

- ✍ **Answer ALL the questions.**
✍ **Illustrate your answers with diagrams wherever necessary.**

1. Discuss briefly the risk factors, pathogenesis and morphology of atherosclerosis.
(3+4+3 = 10 marks)

2. A 64-year-old woman presents with a lump in the right breast. On examination, a 5×4cm hard lump was felt. The overlying skin showed peau d'orange and nipple retraction. Ipsilateral axillary lymph nodes were palpable. Fine needle aspiration cytology was done and a modified radical mastectomy performed and sent for histopathology.

- 2A. What is the diagnosis in this case?
2B. List the histologic subtypes.
2C. What are the morphologic features of the commonest subtype?
2D. List the major and minor prognostic factors of this lesion.

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

3. **Write short notes on:**

- 3A. Etiopathogenesis of cholelithiasis
3B. Morphology of leiomyoma
3C. Causes of hydronephrosis
3D. Morphology of heart in acute rheumatic fever
3E. Morphology of osteoclastoma
3F. Pathogenesis of asbestos related lung lesions
3G. Morphology of classical seminoma
3H. Glomerular lesions in diabetic nephropathy
3I. Morphology of chronic gastric ulcer
3J. Pathogenesis of acute pancreatitis
3K. Morphology of Hashimoto's thyroiditis
3L. Etiological classification of cirrhosis
3M. Morphology of meningioma
3N. Etiopathogenesis of bronchiectasis
3O. Microscopy of nodular melanoma

(4 marks × 15 = 60 marks)

