

**MANIPAL ACADEMY OF HIGHER EDUCATION****SECOND MBBS DEGREE EXAMINATION – JUNE 2021****SUBJECT: PATHOLOGY – PAPER I (ESSAY)**

Tuesday, June 01, 2021

Time: 10:20 – 13:00 Hrs.

Maximum Marks: 80

✍ **Answer ALL the questions.**

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

1. Define and classify anemia. Describe the etiopathogenesis and lab diagnosis with peripheral smear and bone marrow findings in iron deficiency anemia.

(2+2+6 = 10 marks)

2. Define inflammation with examples. Describe in detail the cellular events of acute inflammation.

(2+2+6 = 10 marks)

3. **Write short notes on:**

3A. Morphology of reversible cell injury.

3B. Morphologic patterns of acute inflammation.

3C. Structural abnormalities of chromosome.

3D. Regulators of cell cycle.

3E. Erythrocyte sedimentation rate.

3F. Pathophysiology of disseminated intravascular coagulation.

3G. Morphology of Gaucher disease.

3H. Enumerate HLA and disease association.

3I. Pathogenesis of Epstein Barr virus infection.

3J. Mechanism of type I hypersensitivity.

3K. Pathogenesis of tuberculosis.

3L. Define amyloid & mention the lab diagnosis of amyloidosis.

3M. Types & clinical features of von Willebrand disease.

3N. Definition and examples of Paraneoplastic syndromes.

3O. Clinical features & microscopy of lepromatous leprosy.

(4 marks × 15 = 60 marks)



**MANIPAL ACADEMY OF HIGHER EDUCATION**  
**SECOND MBBS DEGREE EXAMINATION – JUNE 2021**  
**SUBJECT: PATHOLOGY - PAPER II (ESSAY)**

Wednesday, June 02, 2021

Time: 10:20 – 13:00 Hrs.

Maximum Marks: 80

✍ **Answer ALL the questions.**

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

1. What are the risk factors for the development of carcinoma of the female breast? Describe the prognostic and predictive factors associated with this condition.

(5+5 = 10 marks)

2. A 60 year old male develops intermittent hematuria. He complains of costovertebral pain and clinical examination reveals a palpable mass in the right lumbar region. An X-ray of the chest taken during routine work up reveals cannon ball lesions.

2A. What is your diagnosis?

2B. Classify this condition.

2C. Describe the morphology of the commonest type.

2D. What systemic symptoms can be associated with this condition?

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

3. **Write short notes on:**

3A. Papillary carcinoma of the thyroid.

3B. CSF findings in pyogenic meningitis.

3C. Differences between nephritic and nephrotic syndrome.

3D. Benign nodular hyperplasia of the prostate.

3E. Types of gall stones.

3F. Pathogenesis of H. Pylori gastritis.

3G. Mucinous tumors of the ovary.

3H. Complications of myocardial infarction.

3I. Morphology of Crohn disease.

3J. Cervical cancer screening and prevention.

3K. Malignant melanoma.

3L. Osteogenic sarcoma.

3M. Lobar pneumonia.

3N. Meningioma.

3O. Morphology of pleomorphic adenoma.

(4 marks × 15 = 60 marks)

