

MANIPAL ACADEMY OF HIGHER EDUCATION
SECOND MBBS DEGREE EXAMINATION – JANUARY 2022

SUBJECT: PATHOLOGY – PAPER I (ESSAY)

(2018-19 & Prior Batch - Regular/Repeater)

Monday, January 03, 2022

Time: 10:20 – 13:00 Hrs.

Maximum Marks: 80

✍ **Answer ALL the questions.**

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

1. Define neoplasia. Describe differences between benign and malignant tumors. Give four examples of each.

(2+6+2 = 10 marks)

2. A 30-year-old female complained of cough with expectoration and evening rise of temperature of one month duration. She also gives a history of significant weight loss. Chest X-ray revealed right lung apical cavity.

2A. What is probable diagnosis in this case?

2B. Describe the characteristic pathologic lesion in the lung.

2C. Explain the pathogenic mechanism of formation of this lesion.

(2+4+4 = 10 marks)

3. **Write short notes on:**

3A. Mechanism and mediators of chemotaxis

3B. Etiopathogenesis of Caisson's disease

3C. Definition, method and applications of karyotyping

3D. Definition and four examples of paraneoplastic syndromes

3E. Enumerate the special stains used to demonstrate amyloid

3F. Differences between tuberculoid and lepromatous leprosy

3G. Pathogenesis of type 1 diabetes mellitus

3H. Peripheral smear and Laboratory investigations in iron deficiency anemia

3I. Reed Sternberg cell and its variants.

3J. Definition and differential diagnosis of leukemoid reaction

3K. Virchow's triad in thrombus formation

3L. Principle and indications for direct antiglobulin test

3M. Hemophilia B

3N. Granulation tissue

3O. Bence Jones protein

(4 marks × 15 = 60 marks)



MANIPAL ACADEMY OF HIGHER EDUCATION
SECOND MBBS DEGREE EXAMINATION – JANUARY 2022

SUBJECT: PATHOLOGY - PAPER II (ESSAY)

(2018-19 & Prior Batch - Regular/Repeater)

Tuesday, January 04, 2022

Time: 10:20 – 13:00 Hrs.

Maximum Marks: 80

✍ Answer ALL the questions.

✍ Illustrate your answers with diagrams wherever necessary.

1. What are the manifestations of nephritic syndrome? Discuss the light, immunofluorescence & electron microscopic findings in post streptococcal glomerulonephritis.

(3+7 = 10 marks)

2. A 61 year old male presented with weight loss, poor appetite and upper abdominal pain. Upper GI endoscopy revealed an ulceroproliferative mass arising from the pyloric antrum.

2A. What is your diagnosis?

2B. Discuss the etiopathogenesis and morphology of this condition

2C. Discuss the modes of spread.

(2+6+2 = 10 marks)

3. Write short notes on:

3A. Morphology of atherosclerotic plaque

3B. Abdominal aortic aneurysm

3C. Morphology of papillary thyroid carcinoma

3D. Fallot tetralogy

3E. Barrett esophagus

3F. Pheochromocytoma

3G. Morphology of seminoma testis

3H. Basal cell carcinoma

3I. Differences between Crohn disease from ulcerative colitis

3J. Molecular pathogenesis of colorectal carcinoma

3K. Osteoclastoma

3L. Stages of alcoholic liver disease

3M. Morphology of lobar pneumonia

3N. Pathogenesis of emphysema

3O. Prognostic factors in breast carcinoma

(4 marks × 15 = 60 marks)

