

**MANIPAL ACADEMY OF HIGHER EDUCATION**  
**SECOND MBBS DEGREE EXAMINATION – APRIL/MAY 2023**  
**SUBJECT: PATHOLOGY – PAPER I (ESSAY)**

(OLD REGULATION - 2018-19 & PRIOR BATCH)

Monday, April 17, 2023

Time: 10:20 – 13:00 Hrs.

Maximum Marks: 80

✍ Answer ALL the questions.

✍ Illustrate your answers with diagrams wherever necessary.

✍ Long Questions:

1. Define anemia. Classify anemia based on the aetiology. Describe the pathogenesis of sickle cell anemia with a suitable illustration.

(2+4+4 = 10 marks)

2. Describe the process of wound repair by primary intention. Add a note on factors affecting wound healing.

(6+4 = 10 marks)

3. Short Notes:

3A. Atrophy with examples

3B. Granulomatous inflammation

3C. Tabulate the differences between dry and wet gangrene

3D. Dystrophic calcification with examples

3E. Laboratory features in Hemophilia

3F. Discuss any 4 complications of a mismatched blood transfusion

3G. Down's syndrome

3H. Type III hypersensitivity reaction

3I. Morphology of chronic venous congestion of liver

3J. Fate of a thrombus

3K. Gaucher's disease

3L. Discuss the pathogenesis of amyloidosis

3M. Pathways of spread of tumour

3N. Morphology of fatty liver

3O. Amniotic fluid embolism

(4 marks × 15 = 60 marks)



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**SUBJECT: PATHOLOGY - PAPER II (ESSAY)**  
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Wednesday, April 19, 2023

Time: 10:20 – 13:00 Hrs.

Maximum Marks: 80

✍ **Answer ALL the questions.**

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

1. Describe the etiopathogenesis, morphology and complications of Rheumatic heart disease  
(4+4+2 = 10 marks)

2. Describe the types and stages of bacterial pneumonia  
(2+8 = 10 marks)

3. **Short Answer Questions:**

3A. Tabulate the differences between obstructive and non-obstructive jaundice

3B. Describe the gross and microscopic findings of Ulcerative Colitis

3C. Features to differentiate nephrotic versus nephritic syndrome

3D. Classify testicular tumors

3E. Describe the screening and diagnostic method for carcinoma cervix

3F. Describe the gross and microscopic findings of leiomyoma

3G. Describe the risk factors of Carcinoma breast

3H. Describe the gross and microscopic features of papillary carcinoma thyroid

3I. Describe the stages of fracture healing

3J. Classify Hodgkin's lymphoma and the diagnostic immunohistochemical markers

3K. Describe the gross and microscopy of basal cell carcinoma

3L. Tabulate the difference in CSF findings between bacterial and viral meningitis

3M. Describe the gross and microscopy of osteosarcoma

3N. Describe the complications of diabetes mellitus

3O. List the causes of obstructive uropathy

(4 marks × 15 = 60 marks)

