

Reg. No.									
----------	--	--	--	--	--	--	--	--	--

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

SUBJECT: PATHOLOGY – PAPER I (ESSAY)

(OLD REGULATION - 2018-19 & PRIOR BATCH)

Tuesday, December 06, 2022

Time: 10:20 – 13:00 Hrs.

Maximum Marks: 80

✍ **Answer ALL the questions.**

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

✍ **Essay question:**

1. Define inflammation. Describe the major events of acute inflammation with a note on its outcome.

(2+6+2 = 10 marks)

2. Define and classify shock. Discuss various stages of shock. Mention the clinical features in hypovolemic shock.

(5+3+2 = 10 marks)

3. **Write short notes on:**

3A. Type III hypersensitivity reaction

3B. Metastatic cascade

3C. Granulation tissue

3D. Types of necrosis with examples

3E. Gaucher disease

3F. Metaplasia with examples

3G. In a tabulate form differentiate apoptosis versus necrosis

3H. Fracture healing

3I. Sago spleen

3J. Granulomatous inflammation

3K. Virchow triad in thrombosis

3L. Down's syndrome

3M. Define hyperplasia with two examples

3N. Chemical carcinogenesis

3O. Types of calcification with examples

(4 marks × 15 = 60 marks)



Reg. No.									
----------	--	--	--	--	--	--	--	--	--

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

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

Thursday, December 08, 2022

Time: 10:20 – 13:00 Hrs.

Maximum Marks: 80

✍ **Answer ALL the questions.**

✍ **Long Essay:**

1. List the risk factors of atherosclerosis and discuss its pathogenesis in detail. With the help of a suitable diagram explain the morphology of atherosclerotic plaque.

(2+5+3 = 10 marks)

2. Classify emphysema and discuss the pathogenesis of the various types of emphysema

(2+8 = 10 marks)

3. **Write short notes on:**

3A. Gross and microscopic features of the spectrum of changes in myocardial infarction

3B. Tabulate the difference between Crohns disease and Ulcerative colitis

3C. Types and morphology of gastric adenocarcinoma

3D. Stages of pneumonia

3E. Serologic markers in hepatitis B infection

3F. Morphologic changes in alcoholic liver disease

3G. Pathogenesis of cholesterol stones

3H. Classify and describe the morphology of renal cell carcinoma

3I. Gross and microscopic features of seminoma

3J. Morphological alterations in cervical intraepithelial neoplasia (CIN)

3K. Major prognostic and predictive factors of carcinoma breast

3L. Morphology of basal cell carcinoma

3M. Gross and microscopic features of papillary carcinoma thyroid.

3N. Etiology and morphologic findings of pyogenic osteomyelitis

3O. Differences between Hodgkin and non-Hodgkin lymphoma

(4 marks × 15 = 60 marks)

