

# Question Paper

Exam Date & Time: 29-Feb-2020 (02:00 PM - 04:30 PM)

MANIPAL ACADEMY OF HIGHER EDUCATION



MELAKA MANIPAL MEDICAL COLLEGE (MANIPAL CAMPUS)  
MBBS PHASE - I STAGE - II DEGREE EXAMINATION - FEBRUARY/MARCH 2020  
Saturday, February 29, 2020

Pathology [M2PAT] - PART - II (ESSAY)

Section Duration: 120 mins  
Max. Marks: 60

Answer all the questions

Draw diagrams wherever appropriate

1. Enumerate the steps of fracture healing in a long bone with the help of a diagram. What are the factors which affect the healing of a fracture?  
(4+1 = 5 marks)
- 2A. List the cardinal signs of inflammation and explain the pathophysiological basis of each.
- 2B. Describe the beneficial and harmful effects of inflammation.  
(2.5+2.5 = 5 marks)
3. Explain carcinogenesis with special reference to the role of oncogenes and tumour suppressor genes. Give suitable examples.  
(4+1 = 5 marks)
4. A 50 year old male presented with anaemia, elevated ESR and osteolytic lesions on the skull. The protein electrophoresis confirmed his diagnosis.
  - 4A. Name the condition and describe its pathogenesis.
  - 4B. Explain the pathophysiological basis of the underlined features.
  - 4C. Mention the finding on protein electrophoresis.  
(2+2+1 = 5 marks)
5. Classify CNS tumours. Describe the clinicopathological features of glioblastoma multiforme.  
(2+3 = 5 marks)
6. Describe the clinical features and morphology of bronchiectasis. Mention any four complications.  
(1+2+2 = 5 marks)

7. A 50 year old chronic alcoholic presented with pain abdomen and jaundice. Biochemical examination revealed altered liver function tests. Computed tomography showed a diffuse nodular liver.  
7A. Name the pathological condition in the liver and describe its morphology.  
7B. List the spectrum of changes seen in the liver due to alcohol.  
(4+1 = 5 marks)
8. Describe the aetiopathogenesis and morphology of Graves' disease.  
(2+3 = 5 marks)
9. Compare the epidemiology and aetiopathogenesis of gastric and duodenal ulcers.  
(5 marks)
10. In a tabular format list the types of aneurysms, their common sites and clinical effects.  
(5 marks)
11. A 68-year-old obese man presents to the medicine OPD with complaints of passing red coloured urine and vague pain in the right lumbar region. An ultrasonogram of the abdomen showed a large mass in the right kidney.  
11A. What is the diagnosis?  
11B. Describe the morphology of the possible pathology in the kidney.  
11C. Name two paraneoplastic syndromes associated with this condition.  
(1+3+1 = 5 marks)
12. With the help of a diagram explain cervical intraepithelial neoplasia (CIN). List the risk factors of CIN.  
(3+2 = 5 marks)