

MANIPAL ACADEMY OF HIGHER EDUCATION
MELAKA MANIPAL MEDICAL COLLEGE (MANIPAL CAMPUS)
MBBS PHASE I STAGE II DEGREE EXAMINATION - APRIL 2021
SUBJECT: PATHOLOGY – PART - II (ESSAY)

Wednesday, April 14, 2021

Time : 10.30 a.m. – 12.30 p.m.

Max. marks : 60

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- ✓ **Answer all the questions**
 - ✓ **Draw diagrams wherever appropriate**
- 1. Describe the cellular events in acute inflammation with the help of a neat labelled diagram.**
(5 marks)
 - 2. Define metastasis. Describe the metastatic cascade with the help of a suitable diagram.**
(1+ 4 = 5 marks)
 - 3. Stephen, a 44-year-old vegetarian, has been experiencing tingling and numbness in his extremities. The peripheral smear showed macrocytic anaemia.**
 - 3A. What are the two nutritional causes for this anaemia?**
 - 3B. Describe the laboratory tests and their findings in this type of anaemia.**
 - 3C. List the changes seen in other organs in this condition****(1+4+2 = 7 marks)**

4. A 60-year-old female, subsequent to a long flight of 15 hours, developed severe pain, redness and swelling of the left calf region. Doppler study confirmed the diagnosis.

4A. What is the condition she has developed?

4B. Describe the pathogenesis and consequence of this condition.

4C. Describe the morphology of the lesion in the leg vein.

(1+3+4 = 8 marks)

5. Describe the aetiopathogenesis and morphology of bronchiectasis.

(3+2 = 5 marks)

6. In a tabular format, compare Ewing sarcoma and osteosarcoma on the basis of histogenesis, clinical presentation, morphological features, radiological findings and clinical behavior.

(5 marks)

7. Compare hyperthyroidism and hypothyroidism under the following headings:

7A. Clinical features

7B. Laboratory diagnosis including histopathological features.

(2+3 = 5 marks)

8. Define peptic ulcer. Describe the aetiopathogenesis and morphology of gastric ulcer.

(1+2+2 = 5 marks)

9. A 63-year-old hypertensive male is admitted with history of severe chest pain radiating to left shoulder associated with nausea and sweating. On admission, ECG showed ST elevation and increased troponin levels. Describe the sequence of morphological changes of the lesion seen in the heart.

(5 marks)

10. Describe the aetiology and clinicopathological features of renal cell carcinoma.

(1+4 = 5 marks)

11. Describe the aetiology and clinicopathological types of endometrial carcinoma.

(1+4 = 5 marks)

