

Question Paper

Exam Date & Time: 10-Jan-2023 (02:30 PM - 04:30 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

THIRD SEMESTER B.Sc. BACHELOR OF OPTOMETRY DEGREE EXAMINATION - JANUARY 2023
SUBJECT: PAT 2101 - PATHOLOGY
(2020 SCHEME)

Marks: 50

Duration: 120 mins.

Answer all the questions.

- 1) Define anaemia. Classify anaemia based on morphology. Describe the clinical features and laboratory investigations of megaloblastic anaemia. (10)
(1+3+3+3 = 10 marks)
- 2) In a tabular format, differentiate between healing by primary and secondary intention. Describe the factors affecting wound healing. (10)
(6+4 = 10 marks)
3. Write short notes on:
 - 3A) List the components of granuloma and describe its morphology. (5)
 - 3B) Vascular events of acute inflammation. (5)
 - 3C) Differences between benign and malignant tumours. (5)
 - 3D) Definition of shock and pathogenesis of hypovolemic shock. (5)
 - 4A) Describe the morphology of miliary tuberculosis. (2)
 - 4B) Enlist the types of oedema. (2)
 - 4C) Define gangrene. (2)
 - 4D) Enlist four cell adaptations. (2)
 - 4E) Enlist the factors affecting thrombosis. (2)

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MANIPAL ACADEMY OF HIGHER EDUCATION

THIRD SEMESTER B.Sc. (BPT /PFT/RT/BOATT/BOT/CVT/RRT &DT/EMT/MIT) DEGREE EXAMINATION - JANUARY 2023
SUBJECT: PAT2103 - PATHOLOGY
(2020 SCHEME)

Marks: 50

Duration: 120 mins.

Answer all the questions.

Draw diagrams wherever necessary.

- 1A) Define necrosis. (1)
- 1B) Describe the various types of necrosis and give examples of each. (9)
(6+3 = 9 marks)
- 2A) Define anemia. Classify anemia based on morphology. (3)
(1+2 = 3 marks)
- 2B) Enumerate the causes, mention the clinical features, and describe the basic laboratory investigations for megaloblastic anemia. (7)
(2+2+3 = 7 marks)
- 3A) List five differences between rheumatoid arthritis and osteoarthritis. (5)
- 3B) Describe the events in wound healing by secondary intention with diagrams. (5)
- 3C) Describe the morphology of tubercular and lepromatous leprosy. (5)
- 3D) Mention the clinical features and describe the basic laboratory investigations of immune thrombocytopenia. (5)
- 4A) List any two main types of carcinogens with one example for each. (2)
- 4B) Mention any four diagnostic features of rheumatic heart disease. (2)
- 4C) List any four etiological factors for peptic ulcer disease. (2)
- 4D) Define cirrhosis. List any two causes. (2)
- 4E) Define edema. List any two types of edema. (2)

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