

Question Paper

Exam Date & Time: 20-Apr-2022 (10:00 AM - 12:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

THIRD SEMESTER BACHELOR OF OPTOMETRY DEGREE EXAMINATION - APRIL 2022
SUBJECT: PAT2101 - PATHOLOGY
(2020 SCHEME)

Marks: 50

Duration: 120 mins.

Answer all the questions.

- 1) Define leukaemia. List the types of leukaemia. In a tabular format, outline the differences between acute and chronic leukaemia. (10)
(2+2+6 = 10 marks)
- 2) Define acute inflammation. List the cardinal signs of acute inflammation. Describe the vascular changes occurring in acute inflammation. (10)
(2+2+6 = 10 marks)
3. Write short notes on:
 - 3A) Gross features of primary and secondary tuberculosis. (5)
 - 3B) Describe hypertrophy and hyperplasia with a suitable example for each. (5)
 - 3C) Healing by secondary intention. (5)
 - 3D) Differences between benign and malignant tumours. (5)
- 4A) Describe liquefactive necrosis with a suitable example. (2)
- 4B) Enlist the types of embolism. (2)
- 4C) Enlist the clinical features of haemophilia. (2)
- 4D) Enlist the types of shock. (2)
- 4E) Enlist the fates of thrombus. (2)

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THIRD SEMESTER BOT / BPT / BSc. MIT / BSc. RRT & DT / BAOTT / BSc. PFT / BSc. CVT / BSc. EMT / BSc. RT
DEGREE EXAMINATION - APRIL 2022
SUBJECT: PAT 2103 - PATHOLOGY
(2020 SCHEME)

Marks: 50

Duration: 120 mins.

Answer all the questions.

Draw diagrams wherever necessary.

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| 1A) | Define shock. List the types of shock.
(2+2 = 4 marks) | (4) |
| 1B) | Describe the pathogenesis of shock caused by bacterial infection. | (6) |
| 2A) | Define fracture. | (2) |
| 2B) | Describe the process of fracture healing. List the factors influencing fracture repair.
(5+3 = 8 marks) | (8) |
| 3A) | List two causes and describe morphology of a granuloma with a diagram. | (5) |
| 3B) | Describe the basic laboratory investigations and clinical features of hemophilia. | (5) |
| 3C) | Describe the predisposing factors and complications of atherosclerosis. | (5) |
| 3D) | Describe etiology and clinical features of bronchiectasis. | (5) |
| 4A) | Define atrophy and give two examples. | (2) |
| 4B) | Define inflammation. Give an example each for acute and chronic inflammation. | (2) |
| 4C) | Define neoplasia. Give two examples of benign tumors. | (2) |
| 4D) | Mention the etiology and mode of transmission of tuberculosis. | (2) |
| 4E) | Define karyotyping. Name one syndrome due to chromosomal abnormality. | (2) |

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