Question Paper

Exam Date & Time: 19-Jun-2024 (10:00 AM - 12:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

THIRD SEMESTER BPT/BOT/BSc. (CVT / PHYSICIAN ASSISTANT / AOTT / RRT & DT / CND / RT / EMT / PFT) DEGREE EXAMINATION - JUNE 2024

SUBJECT: MCB2103/MICR 201 - MICROBIOLOGY (2022/2020/2019/2016 SCHEME)

Marks: 50 Duration: 120 mins. Answer all the questions. Classify hypersensitivity. Explain the mechanism and mediators of type I hypersensitivity reactions. (10) 1) (2+5+3 = 10 marks)2) Explain the prevention and investigations in healthcare associated infections. (10)(5+5 = 10 marks)3) Write short notes on: 3A) Bacterial growth curve (5)3B) Mechanisms of autoimmunity (5)Explain the structure of gram negative cell wall 3C) (5)Laboratory diagnosis of fungal infections 3D) (5)4) Answer the following: 4A) Classify protozoa with examples (2)Name TWO enriched media 4B) (2)4C) Classify immunity (2)4D) Write TWO contribution of Louis Pasteur (2)4E) List any TWO live attenuated vaccines. (2)

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Question Paper

Exam Date & Time: 18-Jun-2024 (10:00 AM - 12:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

THIRD SEMESTER BSc. (BPT / RT / EMT / MIT / PHYSICIAN ASSISTANT / RRT & DT / PFT / BAOTT / CVT / BOT DEGREE EXAMINATION - JUNE 2024
SUBJECT: PAT2103 - PATHOLOGY
(2020/2022 SCHEME)

Answer ALL questions.

Draw diagrams wherever necessary.

Marks: 50 Duration: 120 mins.

Answer all the questions.

| 1A) | Define necrosis. | (1) |
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| 1B) | Describe the various types of necrosis and give clinical examples of each. $(6+3=9 \text{ marks})$ | (9) |
| 2A) | Define anemia. Classify anemia based on morphology. (1+2 = 3 marks) | (3) |
| 2B) | List the clinical features, mention the etiology and discuss the basic laboratory investigations for iron deficiency anemia. $(2+2+3=7 \text{ marks})$ | (7) |
| 3A) | List the clinical features of rheumatoid arthritis and osteoarthritis. | (5) |
| 3B) | Describe the events in wound healing by primary intention with diagrams. | (5) |
| 3C) | Describe the morphology of tuberculoid and lepromatous leprosy. | (5) |
| 3D) | List the clinical features and discuss the basic laboratory investigations of hemophilia. | (5) |
| 4A) | Name two main types of carcinogens with one example each. | (2) |
| 4B) | Mention the causes of cardiac failure. | (2) |
| 4C) | List the etiological factors for gastric ulcer. | (2) |
| 4D) | Define liver failure. List any two causes. | (2) |
| 4E) | Define embolism. List any two types of embolism. | (2) |
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