

Question Paper

Exam Date & Time: 10-Dec-2021 (02:30 PM - 04:30 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

THIRD SEMESTER BPT / BOT / B.Sc. CVT / B.Sc. RRT & DT / B.Sc. BAOTT / B.Sc. RT / B.Sc. PFT / B.Sc. MIT DEGREE
EXAMINATION - DECEMBER 2021
SUBJECT: MICR 201 - MICROBIOLOGY
(2016/2019 SCHEME)

Marks: 50

Duration: 120 mins.

Answer all the questions.

- 1) Define and classify sterilization. Explain in detail on autoclave. (10)
(1+2+7 = 10 marks)
- 2) Describe the pathogenesis of poliomyelitis. Explain the prophylactic measures employed for this infection. (10)
(5+5 = 10 marks)

3. Write short notes on:

- 3A) Contributions of Louis Pasteur. (5)
- 3B) Anaphylaxis. (5)
- 3C) Laboratory diagnosis of enteric fever. (5)
- 3D) Morphological classification of fungi. (5)

4. Answer the following:

- 4A) Name TWO bacteria causing acute meningitis. (2)
- 4B) Mention the causative agent of tetanus and its prevention. (2)
- 4C) Write TWO modes of transmission of infection. (2)
- 4D) Name TWO bacteria causing skin infection. (2)
- 4E) Write TWO organisms causing sexually transmitted diseases. (2)

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Question Paper

Exam Date & Time: 13-Dec-2021 (02:30 PM - 04:30 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

THIRD SEMESTER B.Sc. MIT / B.Sc. RTT / B.Sc. EMT / B.Sc. RRT & DT / B.Sc. AOTT / B.Sc. RT / B.Sc. PFT / BOT / BPT /
B.Sc. CVT DEGREE EXAMINATION - DECEMBER 2021
SUBJECT: PATH 201 - PATHOLOGY
(2016 / 2016 RV / 2019 SCHEME)

Marks: 50

Duration: 120 mins.

Answer all the questions.

- 1) Define inflammation. Mention types of inflammation with examples. Describe the cellular events of inflammation. (10)
(1+3+6 = 10 marks)
- 2) Classify anaemia. List four clinical features of anaemia. Describe the laboratory findings in megaloblastic anaemia. (10)
(3+2+5 = 10 marks)
- 3A) Write a note on steps of fracture healing. (5)
- 3B) What are the modes of transmission of HIV/AIDS? List the opportunistic infections in HIV/AIDS. (5)
(2+3 = 5 marks)
- 3C) Illustrate the mechanism of metastasis with a flowchart. (5)
- 3D) Describe the types and causes of emphysema. (5)
(3+2 = 5 marks)
- 4A) Define metaplasia. Give an example. (2)
- 4B) List the differences between dry gangrene and wet gangrene. (2)
- 4C) List the complications of acute myocardial infarction. (2)
- 4D) Mention the etiology of peptic ulcer. (2)
- 4E) Mention the complications of diabetes mellitus. (2)

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Question Paper

Exam Date & Time: 15-Dec-2021 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

THIRD SEMESTER BPT DEGREE EXAMINATION - NOVEMBER/DECEMBER 2021
SUBJECT: BPT 201 - BIOMECHANICS
(2016 SCHEME)

Marks: 100

Duration: 180 mins.

Answer all the questions.

- 1) Define Gait and write briefly about the distance variables. Explain determinants of gait. (20)
(2+8+10 = 20 marks)
- 2) Explain the kinetics and kinematics of Glenohumeral joint in detail. (20)
- 3) Explain the function of arches of foot in detail with diagram. (10)
- 4) Explain kinetics and kinematics of ideal posture. (10)

5. Answer in Brief:

- 5A) Name and explain function of any Five ligaments of spine. (5)
- 5B) Explain angle of torsion of femur. (5)
- 5C) Explain phases of gait (RLA system) (5)
- 5D) Explain the kinematics of elbow joint. (5)
- 5E) Explain screw home mechanism. (5)
- 5F) Explain pump handle mechanism. (5)

6. Shorts answers:

- 6A) Define Posture. (2)
- 6B) Define anteversion and retroversion in femur. (2)
- 6C) Name muscles causing Hip flexion and extension. (2)
- 6D) Name Any TWO postural abnormalities in standing posture. (2)
- 6E) Name the muscle causing plantarflexion and dorsiflexion. (2)

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