

Question Paper

Exam Date & Time: 24-Nov-2023 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

Manipal Academy of Higher Education, Manipal MPharm Theory End-Semester Examinations.

Microbial and Cellular Biology [PBT-MPB102T]

Marks: 75

Duration: 180 mins.

SECTION - A

Answer all the questions.

Answer the following (10 marks x 5 = 50 marks)

- 1) What is a pure culture? Explain various methods to obtain pure culture. (10)
- 2) Explain the types of microbe-host relationships, different types of microbiota and discuss the functions and dysfunctions of intestinal flora. (10)
- 3) Discuss RWC and CMC as phenol coefficient tests to evaluate the bactericidal activity of test disinfectant. (10)
- 4) What are biofilms? Explain the process of biofilm formation and discuss various factors affecting the attachment of biofilms to the substratum. (10)
- 5) Discuss the process of transcription in prokaryotes. (10)

SECTION - B

Answer all the questions.

Answer the following (5 marks x 5 = 25 marks)

- 6) Elaborate of different types of fungal spores. (5)
- 7) Probiotics are valuable for prevention and treatment of diseases. Justify. (5)
- 8) Write a brief note on inhibitors of bacterial cell wall synthesis. (5)
- 9) Briefly explain the general resistance mechanisms of biofilms to biocidal agents. (5)
- 10) Write a note on spontaneous mutations and induced mutations. (5)

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