

Exam Date & Time: 07-Sep-2021 (02:00 PM - 05:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

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

Medicinal Plant Biotechnology [PCO-MPG201T]

Marks: 75

Duration: 180 mins.

SECTION - A

Answer all the questions.

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

- 1) Describe recombinant DNA technology with its application in pharmacy. (10)
- 2) What is Biotransformation? Explain various factor affection Biotransformation. Give examples for Biotransformation. (10)
- 3) Explain techniques involved in production of secondary metabolites. Write a note on any four factors affecting production of secondary metabolites. (10)
- 4) a) Write a detail note on sterilization methods involved in plant tissue culture. 6 Marks
b) Discuss various possible sources of contamination in PTC. 4 Marks (10)
- 5) Give a detailed account on Single cell protein. (10)

SECTION - B

Answer all the questions.

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

- 6) Write a note on Indirect method of gene transfer. (5)
- 7) Give a brief note on regulation of gene expression. (5)
- 8) Enumerate various applications of PCR in plant genome analysis. (5)
- 9) Give the source, method of preparation and uses of Pepsin and Urokinase. (5)
- 10) What is immobilization? Give the applications of immobilization. (5)

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