

B.Sc. (Part-III) EXAMINATION - 2020
(Faculty of Science)
(Common to Three and Five Year Integrated Course)
BIOTECHNOLOGY
(Paper-BT-801)
(Medical Biotechnology)

Time Allowed: Three Hours
Maximum Marks: 50

Note : Answer of all questions (short answer as well as descriptive) are to be given in the main answer-book only. Answers of short answer type questions must be given in sequential order. Similarly all the parts of one question of descriptive part should be answered at one place in the answer-book. One complete question should not be answered at different places in the answer-book. Write your roll number on question paper before start writing answers of question.

Question No. 1 is compulsory. Answer five questions in all, selecting at least one question from each Section.

PART - A

1. Short answer questions :

1x10 = 10

- Define chromosomal aberrations.
- Give examples of antimicrobial compounds.
- What is tube dilution method?
- Write the importance of reservoir in disease cycle.
- Write the causal organism of leishmaniasis.
- Write the name of STD diseases.
- Write the symptoms of dermatomycoses.
- Define immunotoxins.
- Write the symptoms of Parkinson disease.
- What is limb amputation?

PART - B
SECTION - A

2. Describe Ex-vivo, In-vivo and In situ gene therapy in detail.

3+3+4

OR

Write a note on mechanism of pathogenicity.

SECTION - B

3. Define infectious disease. Explain disease cycle with special emphasis on source of disease and carriers.

OR

Describe epidemiology and pathogenicity of Tuberculosis and Tetanus.

SECTION - C

4. Write general characters and symptoms of fungal diseases.

OR

Write short notes on :

(i) Pneumonia

(ii) Mumps

SECTION - D

5. Write short notes on :

(i) Stem cell based drug discovery.

(ii) Alzheimer's disease

OR

Write short notes on :

(i) Antiviral therapy for AIDS

(ii) Microarray Technology