

B.Sc. (Part-III)

Med. Biotech.

8008-I

B.Sc. (Part-III) Examination, 2021

(Faculty of Science)

(Common to Three and Five Year Integrated Course)

BIOTECHNOLOGY

Paper-BT-801

(Medical Biotechnology)

Time Allowed : 3 Hours

Maximum Marks : 50

Answer of all the 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 questions.

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

PART-A

1. Short answer questions :

- (i) What is gene augmentation therapy?
- (ii) Define pathogenicity.
- (iii) Plain autoimmunity.
- (iv) Define Herd immunity.
- (v) What is the name of the pathogen that causes Tetanus?
- (vi) Vector for malaria is female mosquito not males. Why?
- (vii) What are the four common mycoses?
- (viii) What are immunotoxins?

- (ix) Why is cDNA used in microarray?
(x) How do stem cells contribute to drug development?

10×1=10

PART-B

SECTION-A

2. Write an account on antimicrobial compounds and their mode of action. 10

OR

Describe in detail vectors used in gene therapy. 10

SECTION-B

3. Describe different modes of pathogen transmission. 10

OR

Describe epidemiology, pathogenicity, diagnosis, prevention and control of Typhoid. 10

SECTION-C

4. Write a detailed account on sexually transmitted diseases. 10

OR

Write short notes on :

(a) Chickenpox.

(b) Leishmaniasis.

5+5=10

SECTION-D

5. What are nano medicines? Explain the targeted drug delivery approach and molecular motors.

2+8=10

OR

Write short notes on :

(a) Tissue engineering.

(b) Parkinson disease.

5+5=10
