

Enrollment No: _____ Exam Seat No: _____

C. U. SHAH UNIVERSITY

Summer Examination-2022

Subject Name: Fundamentals of Biotechnology

Subject Code : 5SC01FBT1

Branch: M.Sc. (Microbiology)

Semester: 1

Date: 26/04/2022

Time: 11:00 To 02:00

Marks: 70

Instructions:

- (1) Use of Programmable calculator and any other electronic instrument is prohibited.
 - (2) Instructions written on main answer book are strictly to be obeyed.
 - (3) Draw neat diagrams and figures (if necessary) at right places.
 - (4) Assume suitable data if needed.
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SECTION – I

Q-1 Attempt the Following questions (07)

- a. Define a vector.
- b. What is a Blotting?
- c. What is a monoclonal antibody?
- d. Enlist a bacterial transformation method.
- e. Define a patent.
- f. Full form: GMP
- g. Define a Hybridoma technique

Q-2 Attempt all questions (14)

- A Write a detail note on recombinant DNA technique.
- B Write a short note on plant and animal vector.

OR

Q-2 Explain about an intellectual property right. (14)

Q-3 Attempt all questions (14)

- A Write a note on good manufacturing practice
- B What is a difference between genomic and cDNA library.?

OR

- Q-3 A Write a note on Bio safety and Bioethics.
- B Write a detail note on embryo transfer method.



SECTION – II

Q-4 Attempt the Following questions (07)

- a. Define: recombinant DNA technology.
- b. Define a gene therapy.
- c. What is a probe?
- d. What are the steps involving in blotting?
- e. Define an electroporation.
- f. Define a Cosmid.
- g. Southern blotting is used for?

Q-5 Attempt all questions (14)

- A** Write a brief note on Patent with advantage.
B Write a note on Embryo transfer technology.

OR

- Q-5 A** Write a note on WTO.
B Write a detail note on good laboratory practice,

Q-6 Attempt all questions (14)

- A** Write a short note on gene therapy.
B Write a detail note on an immobilized enzyme.

OR

Q-6 (14)

Write a detail note on an Agrobacterium mediated transformation.

