

C.U.SHAH UNIVERSITY

Winter Examination-2018

Subject Name : Fundamentals of Biotechnology

Subject Code : 5SC01FBT1

Branch: M.Sc. (Microbiology)

Semester : 1

Date : 03/12/2018

Time : 02:30 To 05:30

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 Briefly explain the following- **7**

- a. Write full form of WIPO.
- b. Write full form of IPR.
- c. Term of copy right in India file time. True/False
- d. What do you mean by MCS of a plasmid?
- e. What is ELSI?
- f. What is Plasmid?
- g. Write full form of TRIPS.

Q-2 **Attempt all questions**
a Explain the main differences between Genetic Modifications and Selective Breeding. **7**

b Explain the types DNA modifying enzymes. **7**

OR

Q-2 **Write short notes on-**
a Patents **7**
b Super ovulation **7**

Q-3 **Attempt all questions**
a Explain the positive and negative points of Genetically Modified Foods. **7**
b What is Trade mark? Explain importance of trade mark registration. **7**

OR

Q-3 What is DNA library? Explain the process of development and applications of **14**



genomic DNA library.

SECTION – II

- Q-4** **Briefly explain the following-** **7**
- a. Cryobiology deals with storage of cells at low temperature. True/False
 - b. What is Totipotency?
 - c. What is Protoplast?
 - d. What is the full form of MCS?
 - e. RDT stands for.....
 - f. How different fragments of DNA are separated?
 - g. Expand WTO.

- Q-5** **Write notes on-**
- a Basic needs of tissue culture **7**
 - b Embryo Evaluation **7**

OR

- Q-5** **Attempt all Questions**
- a Explain applications of Biotechnology in health sector. **7**
 - b What is Ti plasmid? Explain its role and importance in plant biotechnology. **7**

- Q-6** **Write notes on-**
- a Southern Blotting **7**
 - b Embryo Transfer in Animals **7**

OR

- Q-6** What is Hybridoma technology? Explain the steps of monoclonal antibody production. **14**

