



61527

Fifth Semester B.Sc. Degree Examination, March/April 2022
(CBCS)

BIOTECHNOLOGY

Paper – V : Genetic Engineering and Environmental Biotechnology

Time : 3 Hours

Max. Marks : 70

Instruction : Draw a neat labelled diagrams **wherever** necessary.

SECTION – A

I. Write short notes on the following.

(5×2=10)

- 1) ECOR1
- 2) pUC-19
- 3) Southern blotting
- 4) Gasohol
- 5) Renewable resources.

SECTION – B

II. Answer **any four** of the following.

(4×5=20)

- 6) Explain the salient feature of cosmid.
- 7) Write a note on DNA library construction.
- 8) Describe screening of recombinant cell by colony hybridization.
- 9) Give an account on the treatment of municipal waste water and industrial effluents.
- 10) What is bioleaching ? Add a note on bioleaching of gold and uranium.

SECTION – C

III. Answer **any three** of the following.

(3×10=30)

- 11) What are restriction enzyme ? Give the types and mechanisms of their action.
- 12) Describe the production of human insulins by rDNA technology.

P.T.O.