



K22P 3336

Reg. No. : .....

Name : .....

IV Semester M.Sc. Degree (CBSS – Reg./Supple./Imp.)

Examination, April 2022

(2018 Admission Onwards)

ZOOLOGY

ZOO4C12 : Biotechnology and Bioinformatics

Time : 3 Hours

Max. Marks : 60

I. Answer any two of the following : (2×12=24)

- 1) Briefly explain the techniques of PCR and also write its uses in the field of biotechnology.
- 2) Write notes on the cloning vectors used in genetic engineering.
- 3) Write notes on the gene transfer techniques. Add a note on transgenic plants and animals.
- 4) Write the applications of biotechnology. Add a note on the hazards and impacts of biotechnology on society.

II. Answer any two of the following : (2×8=16)

- 5) Write notes on c-DNA libraries.
- 6) Explain RNAi.
- 7) Write notes on gene therapy.
- 8) Describe Sanger's method of DNA sequencing.

III. Answer any four of the following : (4×5=20)

- 9) Write notes on terminator genes.
  - 10) Write notes on electroporation.
  - 11) Write notes on chromosome walking.
  - 12) Write notes on phagemids.
  - 13) Write notes on terminal transferases.
  - 14) Write notes on BLAST.
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