



K20P 0133

Reg. No. :

Name :

**IV Semester M.Sc. Degree (CBSS-Reg./Suppl./Imp.) Examination, April 2020
(2014 Admission Onwards)
ZOOLOGY
ZOO4C12 : Biotechnology and Bioinformatics**

Time : 3 Hours

Max. Marks : 60

I. Answer **any two** of the following :

- 1) Write an essay on gene transfer methods.
- 2) Describe Maxam Gilbert's and Sanger's method of DNA sequencing.
- 3) Write notes on the enzymes used in genetic engineering.
- 4) Write the applications of bioinformatics on phylogenetic analysis.

(2×12=24)

II. Answer **any two** of the following :

- 5) Write notes on Ti Plasmid.
- 6) Write brief notes on transgenic animals.
- 7) Write notes on PCR.
- 8) Describe gene therapy.

(2×8=16)

III. Answer **any four** of the following :

- 9) Write notes on Chromosome walking.
- 10) Explain DNA microarray.
- 11) What are linkers ? Explain its uses.
- 12) Write notes on restriction enzymes.
- 13) Write notes on generalised database.
- 14) Write notes on proteome.

(4×5=20)
