

D 102200

(Pages : 2)

Name.....

Reg. No.....

SECOND SEMESTER M.Sc. DEGREE (REGULAR/SUPPLEMENTARY)
EXAMINATION, APRIL 2024

(CBCSS)

Zoology

ZOL 2C 05—MOLECULAR BIOLOGY

(2019 Admission onwards)

Time : Three Hours

Maximum : 30 Weightage

I. Answer any *four* questions. Each question carries 2 weightage :

- 1 Cot value.
- 2 Pseudogenes.
- 3 Capping.
- 4 Start codon.
- 5 Restriction enzymes.
- 6 Virus induced cancer.
- 7 IS elements.

(4 × 2 = 8 weightage)

II. Answer any *four* questions. Each question carries 3 weightage :

- 8 Special features of chloroplast genome.
- 9 Transposons in bacteria.
- 10 Evolution of globin gene.
- 11 Characteristics of genetic code.
- 12 Translational proofreading
- 13 Organization of human genome.
- 14 Interaction of cancer cell with normal cells.

(4 × 3 = 12 weightage)

Turn over

III. Answer any *two* questions. Each question carries 5 weightage :

- 15 Discuss on the biogenesis of ribosomes in eukaryotes.
- 16 Elucidate the evolution, organization and special features of interrupted genes.
- 17 Write an essay on regulation of gene expression in eukaryotes.
- 18 Explain the process of Translation in prokaryotes. Add a note on the difference between prokaryotic and eukaryotic translation.

(2 × 5 = 10)