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Total Pages : 3

Roll No.

MZO-504

Molecular Biology

M.Sc. Zoology (MSCZO)

1st Semester Examination, 2023 (June)

Time : 2 Hours]

[Max. Marks : 35

Note : This paper is of Thirty Five (35) marks divided into two (02) Sections A and B. Attempt the questions contained in these sections according to the detailed instructions given therein.

SECTION-A

(Long Answer Type Questions)

Note : Section 'A' contains Five (05) long answer type questions of Nine and Half (9½) marks each. Learners are required to answer any Two (02) questions only.

(2×9½=19)

1. What is genetic code? Describe in detail the properties of genetic code.

2. Write the structure and functions of the different types of RNA.
3. What is cancer? Discuss the types and the factors that leads to cancer.
4. Describe the different stages of transcription in prokaryotes.
5. Describe the mechanisms of eukaryotic gene regulation.

SECTION-B

(Short Answer Type Questions)

Note : Section 'B' contains Eight (08) short answer type questions of Four (04) marks each. Learners are required to answer any Four (04) questions only. (4×4=16)

1. Write notes on Wobble hypothesis.
2. Radiation acts as carcinogen and use for treating cancer as well. Comment on it.
3. Write notes on DNA Polymerase.
4. What is the function of mobile genetic elements? Write about Transposon.

5. What is aminoacyl-tRNA and its function?
 6. What is the main purpose of alternative splicing?
 7. Write about Semi-Conservative DNA Replication.
 8. Write about any two methods of gene transfer in prokaryotes.
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