

Total Pages : 02

Roll No. :

MZO-504

Molecular Biology

M.Sc. Zoology (MSCZO-20)

1st Semester Examination June 2022

Time : 2 Hours

Max. Marks : 40

Note : This Paper is of forty (40) marks divided into two (02) Section A and B. Attempt the questions contained in these sections according to the detailed instructions given there in.

Section-A

(Long Answer-type questions)

Note: Section 'A' contains Five (05) Long-answer type questions of ten (10) marks each. Learners are required to answer any two (02) questions only.

(2 x 10 = 20)

- Q.1. Describe the salient feature of DNA structure?
- Q.2. Explain the t-RNA and r-RNA.
- Q.3. Describe the process of DNA Replication?

P.T.O.

Q.4. Explain in detail the essential mechanism of transcription?

Q.5. Write a short note on :

(A) Split gene

(B) Enhancer and Silencers

Section-B

(Short Answer-type questions)

Note: Section 'B' contains Eight (08) Short-answer type questions of five (05) marks each. Learners are required to answer any four (04) questions.

(4 x 5 = 20)

Q.1. Explain the post transcriptional process of RNA.

Q.2. Write a short note on Genetic code.

Q.3. Shortly describe the Chromatin remodeling?

Q.4. Write a short note on attenuation with examples?

Q.5. Write a short note on Lac operon?

Q.6. What is transformation?

Q.7. What do you understand by Competence?

Q.8. Describe the transposons with well labeled diagram?
