

S-1071

Total Pages : 3

Roll No.

ZO-502

Cell & Molecular Biology

M.Sc. Zoology (MSCZO)

1st Year Examination, 2022 (Dec.)

Time : 2 Hours]

Max. Marks : 70

Note : This paper is of Seventy (70) 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 Nineteen (19) marks each. Learners are required to answer any Two (02) questions only.

(2×19=38)

1. Give detail structure of plasma membrane and describe its function.

2. Explain electron transport chain and ATP generation.
3. Describe the process of DNA replication.
4. Give detail account of transcription in eukaryotes.
5. What is translation? Explain its mechanism.

SECTION-B

(Short Answer Type Questions)

Note : Section 'B' contains Eight (08) short answer type questions of Eight (08) marks each. Learners are required to answer any Four (04) questions only. (4×8=32)

1. Differentiate between light microscope and electron microscope.
2. Write a short note on :
 - (a) Golgi complex.
 - (b) Nucleus.
3. Differentiate between mitosis and meiosis.
4. Write a short note on cell cycle regulation.
5. What is cell signaling?

6. What are transposons?
 7. What is Transduction? Explain with diagram.
 8. What are the characteristic features of cancer?
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