

S-166

Total Pages : 3

Roll No.

MZO-503

Cell Biology

M.Sc. Zoology (MSCZO)

1st Semester Examination, 2022 (Dec.)

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. Describe the process of mitosis with suitable diagram of each phase.

2. What do you understand by cell signaling and its different types? Describe enzyme-linked receptors in detail.
3. Which organelle is known as Power house of the cell? Explain its Structure and Functions.
4. What is electron microscopy. Describe it in detail with applications and limitations.
5. What do you understand by Cell classification and its basis. Describe it in detail with suitable examples.

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. What are Cilia and Flagella? Distinguish between them. Explain their Functions.
2. Write notes on G-protein receptors.
3. What do you understand by cell fractionation? Describe its significance.

4. Write notes on fluorescence resonance energy transfer (FRET) technique.
 5. What is Golgi apparatus? Give its functions in detail.
 6. Write notes on the structure, types and functions of Endoplasmic reticulum.
 7. Write notes on the structure and function of nucleus.
 8. Write notes on protein kinases.
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