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Total Pages : 3

Roll No.

MZO-508

Human Cytogenetic

M.Sc. Zoology (MSCZO)

2nd 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. Describe the different phases of Mitosis.

2. Describe the methods of chromosome analysis.
3. Explain the types of mutation in detail.
4. Explain different modes of inheritance.
5. Explain the procedure for DNA amplification methods in Polymerase Chain Reaction (PCR).

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. Explain the basic structure of chromosomes.
2. Write short notes on
 - (i) Deletions.
 - (ii) Inversions.
3. Write about dominant mutations.
4. Write about the requirements for culture lab setup.

5. Write about different important parts of microscope.
 6. Explain different modes of inheritance.
 7. Write the karyotype description.
 8. What is the role of chromosome in cell division?
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