

K-529

Total Pages : 3

Roll No.

MZO-508

Human Cytogenetic

M.Sc. Zoology (MSCZO)

2nd Semester Examination, 2023 (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. Candidates should limit their answers to the questions on the given answer sheet. No additional (B) answer sheet will be issued.

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 Meiosis.
2. Describe the different classification systems of chromosomes.
3. What are the types of DNA repair methods? Write in detail.
4. Describe few structural chromosomal Abnormalities.
5. Write the method of permanent slide preparation.

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 short notes on :
 - (a) Heterochromatin.
 - (b) Euchromatin.
2. Write about basic dysmorphology
3. What are Teratogens?
4. Write about the process of recombinant DNA technology.

5. Write in brief about dosage compensation.
 6. Write short notes on :
 - (a) Dominance and (b) Recessiveness
 7. Write about methods of staining.
 8. Write about the requirements for culture lab setup.
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