

C292

Total Pages : 3

Roll No.

MZO-508

Human Cytogenetic

M.Sc. Zoology (MSCZO-20)

2nd Semester Examination, 2022 (June)

Time : 2 Hours]

Max. Marks : 40

Note : This paper is of Forty (40) 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 Ten (10) marks each. Learners are required to answer any Two (02) questions only.

(2×10=20)

1. Describe the process of cell division in detail.
2. Explain different modes of inheritance.

3. Describe structural chromosomal abnormalities.
4. Write in detail on DNA analysis methods.
5. Describe the different types of staining.

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 only. (4×5=20)

1. Write short notes any *two* of the following :
 - (a) Chromosome.
 - (b) Inversions.
 - (c) Deletions.
 - (d) Trisomy 21.
2. Explain heterochromatin and euchromatin in brief.
3. Write about dosage compensation.
4. Explain dominant mutations with suitable diagram.
5. What is DNA cloning and explain the DNA in vivo cell based cloning?

6. Write short notes on :
 - (a) Laminar Air Flow.
 - (b) Incubator.

 7. Write a detail about objective lens.

 8. Describe microscopy and imaging.
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