

S-1073

Total Pages : 3

Roll No.

ZO-504

Human Cytogenetic & Developmental 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. Explain the Prophase first of meiosis in detail.

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[P.T.O.]

2. What is cleavage? Explain in detail how cleavage takes place.
3. Describe the condition required for peripheral blood cell culture.
4. Write briefly about different important parts of microscope.
5. Describe the difference between spermatogenesis and oogenesis.

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. What is aging? Give reasons for aging.
2. Explain the limbless and legless mutations.
3. Explain development of segmentation in Drosophilo.
4. What is regeneration?
5. Explain the mechanism of primary neurulation.

6. Describe The ultra-structure of a sperm and ova with the help of a suitable diagram.
 7. Write short notes on dominance and recessiveness.
 8. What is the mutation called when it replaces a single base with another?
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