

A-0083

Total Pages : 3

Roll No.

MSCZO-602

M.Sc. Zoology (MSCZO)

(Developmental Biology)

Examination, June 2025

Time : 2:00 Hrs.

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. *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) 2×19=38

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.

1. Describe the fate map and different method of construction of fate map in different animals.
2. What is Gametogenesis ? Describe the process of oogenesis.
3. Define cleavage. Explain Pattern and types of Cleavage.
4. What do you understand by differentiation ? Describe different types of differentiation.
5. Explain the process of blastulae in frog and rabbit.

SECTION–B

(Short Answer Type Questions) 4×8=32

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.

1. Comment on the significance of gastrulation.
2. Describe the structure of mammalian spermatogenesis.
3. Discuss fertilizin and antifertilizin reaction mechanism.
4. Explain gastrulation in frog (diagram only).

5. Explain influence of Yolk on cleavage.
6. Write comment on teratogenesis.
7. Explain retrogressive metamorphosis.
8. Give an account of metaplasia.
