

**A-0105**

**Total Pages : 3**

**Roll No. ....**

**MSCZO-602**

**M.Sc. ZOOLOGY (MSCZO)**

**(Developmental Biology)**

**3rd Semester Examination, Session December 2024**

**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. Explain the mechanism of regeneration of amphibian limb.
2. Describe the development mechanism of teratogenesis.
3. Explain in detail about Coeloms.
4. Describe various types of egg found in vertebrates.
5. Discuss spermatogenesis in details.

### **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. Explain genetic teratogenesis in animals.
2. What is embryonic induction. What are its various types ?
3. Write in detail about the development of heart.
4. Illustrate the role of acrosome in sperm.

5. Explain how invagination is different from involution.
6. Write short note on the importance of neurulation.
7. What are Phenocopies ? Explain,
8. Write short note on Somites.

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