

P-216

Total Pages : 3

Roll No.

MSCZO-602

Developmental Biology

M.Sc. Zoology (MSCZO)

3rd Semester Examination, 2023 (June)

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. What is Oogenesis ? Describe the process in details.

2. What is Spermatogenesis? Describe in detail and add a note on its significance.
3. Describe the various types of eggs found in vertebrates. Name the animals to which it belongs. State the methods of segmentations in each case.
4. What do you understand by metamorphosis? Explain with reference to the life history of frog.
5. Give a brief account of various types of morphogenetic movement met within animal groups.

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. Define spermatogenesis and its significance.
2. Define fertilization. How does penetration of sperm into ovum takes place.
3. Discuss the process of induction during Eye formations.

4. Write a brief account of heteromorphic regenerations and super regenerations.
 5. What is emboly? How does it differ from epiboly.
 6. Describe the tadpole larva of frog and its metamorphosis into young frog.
 7. Write an essay on Hormonal control of Metamorphosis.
 8. Discuss the mechanism of genetic and environmental teratogenesis.
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