

Exam. Code : 103205

Subject Code : 1365

B.A/B.Sc. 5th Semester

ZOOLOGY ZOO-VA (DEVELOPMENTAL BIOLOGY)

Time Allowed—3 Hours]

[Maximum Marks—35

SECTION—A (Compulsory)

Write a short answer for the following, each question carries 1 mark.

- (a) Organizer
- (b) Parthenogenesis
- (c) Metamorphosis
- (d) Extraembryonic membranes
- (e) Corpus luteum
- (f) Zygote
- (g) Determination. 7×1=7

SECTION—B

Attempt any **four** questions, selecting at least **one** from each unit.

UNIT—I

1. Write a note on maturation of egg and describe role of egg membranes. 7
2. Describe spermatogenesis in detail. 7

UNIT—II

3. What are the patterns of cleavage ? How do these affect development ? 7
4. What is an organizer, describe its role in development. 7

UNIT—III

5. Give an account of metamorphosis in frog. 7
6. Describe fate maps in rabbit. 7

UNIT—IV

7. Write a note on the formation and role of foetal membranes. 7
8. Write a note on :
- (a) Types and functions of placenta
- (b) Ageing and death. $3.5 \times 2 = 7$