

**Exam. Code : 103205**

**Subject Code : 1341**

**B.A./B.Sc. 5<sup>th</sup> Semester**

**ZOOLOGY—ZOO—VA**

**(Developmental Biology)**

**Time Allowed—3 Hours]**

**[Maximum Marks—35**

**Note :—**There are **EIGHT** questions. Candidates are required to attempt any **FIVE** questions. All questions carry equal marks.

**SECTION—A**

1. Explain spermatogenesis and highlight the role of subtesticular cells in gametogenesis. 7
2. Write notes on the following :
  - (a) Parthenogenesis
  - (b) Fertilization. 3+4

**SECTION—B**

3. Describe embryonic development of Herdmania. 7
4. Explain the following :
  - (a) Organizer
  - (b) Inductors and their role in development. 3.5×2

### SECTION—C

5. Give a detailed account of metamorphosis in frog. 7
6. Explain formation and fate of three germinal layers in chick. 7

### SECTION—D

7. Write notes on the formation and role of :
  - (a) Foetal membranes
  - (b) Placenta. 3.5×2
8. Give a detailed account of embryonic development of rabbit. 7