

**MID-TERM INTERNAL ASSESSMENT  
DEVELOPMENTAL BIOLOGY  
ZH SEM IV**

**DATE: 06.04.2024**

**MAXIMUM MARKS: 24**

**Ms. Nimita Kant & Dr. Ankita Dua**  
(10.5) (13.5)

1. Define gametogenesis. Explain with the help of flow chart the major steps involved in the process of oogenesis and spermatogenesis. Add a note on the process of spermiogenesis. 4.5
2. Classify the different types of eggs based on amount & distribution of yolk with examples 3
3. Write a short note on acrosome reaction in sea urchin 3
4. Discuss in detail hormonal control of metamorphosis in insects 4
5. Briefly describe role of dorsal lip of blastopore as a primary organizer 3
6. Differentiate between: 4.5
  - a. Ametabolous and holometabolous metamorphosis
  - b. Blastula & gastrula
  - c. Epiboly & emboly
7. Give contribution of the following scientists: 2
  - a. H.C. Pander
  - b. Hans Spemann
  - c. F.R. Lillie
  - d. Walter Vogt

*Ankita Dua*  
6.4.2024

*Nimita Kant*  
6.4.2024