



B.Sc. Part - I
Zoology - III
(Gamete & Development Biology)

Part I is compulsory. It includes Q. No. 1 having ten short answer questions and each question carries 1 mark.

- 1) Answer the following questions in one word or on sentence only -
- a) Who proposed biogenetic law theory of recapitulation?
 - b) Define Ontogenic Development
 - c) Define Amphimixis.
 - d) What type of cleavage is found in Aves?
 - e) What is Morula?
 - f) Who coined the term primary organizer?
 - g) What is competence?
 - h) What is heteromorphosis?
 - i) Define Autologous transplant?
 - j) Define Xenobiotics?

Part - II

Section A

- Q.2. Describe oogenesis in detail.
- Q.3. Write an essay on Parthenogenesis and explain its significance.
- Q.4. Write notes on the following
- a) Activation of ovum
 - b) Spermeiogenesis

Section B

- Q.5. Write short notes on following: -
- a) Fate Maps
 - b) Embryonic Induction
- Q.6. Define gastrulation. Describe the process of gastrulation and its significance.

Q.7. Describe the extra-embryonic membranes of chick.

Section C

Q.8. Write an essay on stem cell and their application

Q.9. Write short notes on -

(a) Teratogens

(b) SCNT

Q.10. Write an essay on Ageing.