

## DEVELOPMENT BIOLOGY AND GENETICS

Paper-I  
Semester-V

Time Allowed : 3 Hours]

[Maximum Marks : 50

Note : The candidates are required to attempt two questions each from Sections A and B carrying 7½ marks each and the entire Section C consisting of 10 short answer type questions carrying 2 marks each.

### SECTION-A

1. Give detailed account of the Process of Oogenesis.
2. Differentiate Parthenogenesis from Neotany.
3. What is Placenta? Write down the different types of Placenta.

4. Draw well labelled diagram of Chick egg.

**SECTION-B**

5. Give an account of Human Blood groups and their inheritance.
6. Describe the Incomplete dominance with one suitable example.
7. Explain the process of Extra nuclear inheritance with one suitable example.
8. Describe the characteristics of the Sex linked inheritance.

**SECTION-C**

9. Write short notes on the following :

- (a) Pseudoallelism
- (b) Linkage
- (c) Genetic drift
- (d) Spermatophore
- (e) Epiboly
- (f) Lethal genes
- (g) Dermatoglyphics
- (h) Superficial cleavage
- (i) Pleiotropic genes
- (j) Text cross.

10×2=20