



## SECTION-B

2. Attempt any **three** of the following : **(8×3=24)**
- (a) (i) Discuss about Citric Acid Cycle.  
(ii) What is “Fluid Mosaic Model” of membranes ?  
Explain with labelled diagram.
  - (b) (i) Explain the process of Transcription.  
(ii) Explain “Watson and Crick” Model of DNA.
  - (c) What are the main phases of “cell-cycle” ? Mention about main “check points”. Why are check points important ?
  - (d) (i) What are “Genetically Modified Foods” ? How they are important ? Give examples.  
(ii) What is “Polymerase Chain Reaction” ? Explain the technique.
  - (e) What is “Wheeping of Uterus for the lost ovum” ? Explain in detail.

## SECTION-C

**Note:-** Attempt **all** questions of this Section : **(8×5=40)**

3. Give the Biochemical Pathway of Glycolysis.

**OR**

Draw a well labelled diagram of an animal cell. Discuss the structure and functions of Golgi bodies.

4. Explain the process of DNA Replication.

**OR**

Explain the process of Transcription.

5. What are the different methods of Reproduction ? Explain with examples.

**OR**

How does Cell Reproduce ? Briefly explain the different stages of M-phase of the cell cycle.

6. What are "stem cells" ? Explain different types with suitable examples.

**OR**

Discuss in detail about "Human Genome Project" (HGP).

7. Describe different methods of conception control.

**OR**

Write short notes on :

- (i) Oogenesis
- (ii) IVF.