

## BIOCHEMISTRY - IV

(Semester - I)

Time : Three Hours]

[Maximum Marks : 36

Note : The students are required to attempt two questions from each section A and B and the entire Section C.

### Section - A

1. Give a brief account on the chemical composition of plant material. 5
2. Describe structure and classification of enzymes. 5
3. Write a detailed note on functions of vitamins. 5
4. Discuss about the functions of hormones. 5

### Section - B

5. Describe structure of DNA. 5
6. Give a brief account on structure of cellulose. 5
7. Write a detailed account on protein structure. 5
8. Discuss in detail the structure of RNA. 5

### Section - C

9. Attempt all the following parts in short :
  - (a) Define Biochemistry.
  - (b) What are lipids ?
  - (c) Define enantiomers.
  - (d) Name two essential amino acids.
  - (e) What do you mean by ribonucleoside ?
  - (f) Define  $\beta$ -oxidation.
  - (g) Give two examples of oligosaccharides.
  - (h) What are the differences between RNA and DNA ?

2×8=16