

AE-1228

B.Sc. (Part - I)
Term End Examination, 2016-17

BIOCHEMISTRY

Paper - I

Biomolecules

Time : Three Hours] [*Maximum Marks* : 50

Note : Answer **all** questions. All questions carry equal marks.

Unit-I

1. Write short notes on the following :

- (a) Agar
- (b) Glycoprotein

OR

Describe the structure, properties and biological importance of Cellulose.

(2)

Unit-II

2. Write short notes on the following :

- (a) Cerebrosides
- (b) Sphingomyelin

OR

Write a detailed note on the role and importance of essential fatty acids with example.

Unit-III

3. Explain the structure of Peptide bond. Write the steps involved in the chemical synthesis of Polypeptides.

OR

Write short notes on the following :

- (a) Collagen
- (b) Hemoglobin

Unit-IV

4. Write a detailed account on the composition of DNA and RNA.

OR

(3)

Write short notes on the following :

- (a) Difference between Prokaryotic and Eukaryotic DNA
- (b) Relationship among Gene, Genome and Chromosomes

Unit-V

5. What do you mean by Porphyrins ? Explain in detail.

OR

Write short notes on the following :

- (a) Bilirubin
 - (b) Importance of bile pigments
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