



AF-3028

B.Sc. (Part - I)
Term End Examination, 2017-18

BIOCHEMISTRY

Paper - I

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) Structure of starch
- (b) Reaction of sugar due to OH group

OR

Describe the structure and biological importance of oligosaccharides.

(2)

Unit-II

2. Write brief notes on the following :

- (a) Isoprenoids and sterols
- (b) Triacylglycerols

OR

Discuss the structure and properties of fatty acids.

Unit-III

3. Write concise notes on the following :

- (a) Structure of amino acids
- (b) Behaviour of proteins in solutions

OR

Compare the 1°, 2° and 3° structures of proteins.

Unit-IV

4. Write notes on the following :

- (a) Evidences of DNA as a genetic material
- (b) Features of DNA double helix

OR

Discuss the generalized structural plan of nucleic acids.

(3)

Unit-V

5. Write brief account on the following :

- (a) Chemical nature of bile pigment
- (b) Importance of Metalloporphyrins

OR

Write a detailed note on classification of porphyrins.
