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BG—17—2016

FACULTY OF SCIENCE

B.Sc. (BT) (First Year) (First Semester) EXAMINATION

OCTOBER/NOVEMBER, 2016

(Revised Course)

BIOTECHNOLOGY

Paper (BTT-1.3)

(Biomolecules)

(Wednesday, 23-11-2016)

Time : 10.00 a.m. to 1.00 p.m.

Time—3 Hours

Maximum Marks—80

N.B. :— (i) All question are compulsory.

(ii) Draw well-labelled diagrams wherever necessary.

1. (a) Define nucleic acid. Explain double helical structure of DNA. 10
(b) What are Proteins ? Give a detailed account on structural conformation of proteins. 10
2. (a) Give a detailed account on classification of amino acids. 8
(b) Define enzymes. Explain classification system of enzymes. 7

Or

- (a) Define carbohydrates. Give a note on oligosaccharides. 8
(b) Give a note on properties of Glucose. 7
3. (a) Define RNA. Explain physico-chemical properties of Nucleic acid. 8
(b) Describe in detail forms of DNA. 7

Or

- (a) Explain classification of lipids with example. 8
(b) What are vitamins ? Explain the types of water soluble vitamins. 7

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4. (a) Explain polysaccharide. Write a note on properties of starch. 8
- (b) Give a note on classification of amino acids. 7
- Or*
- (c) Explain biological role of lipids. 8
- (d) Explain various deficiency disorders of fat soluble vitamins. 7
5. Write short notes on (any *three*) : 15
- (a) Cholesterol
- (b) *t*-RNA
- (c) Cellulose
- (d) Nitrogenous bases
- (e) Vitamin-B.

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