

(20518)

Roll No.

B. Sc. (Micro.)- I Year

3488

B. Sc. (Micro.) Examination, May 2018

BIOCHEMISTRY

(B-105)

Time : Three Hours]

[Maximum Marks : 50

Note : Attempt any *five* questions. All questions carry equal marks.

- ✓ 1. Describe different types of structure found in proteins with suitable examples. 10
2. Discuss in detail the isomerisms occur in carbohydrates with examples. 10
- ✓ 3. Differentiate between the following : $5 \times 2 = 10$
- B-DNA and Z-DNA
 - Isoenzyme and coenzyme
 - Nucleosides and nucleotides
 - Symbiotic and non-symbiotic nitrogen fixation
 - Acidic and basic amino acids.

4. (a) Explain the different types of bond found in proteins. 5
- (b) Explain oxidative phosphorylation. 5

✓ 5.

Write short notes on the following : $2\frac{1}{2} \times 4$

- Heteropolysaccharides
- Sphingosine
- Glutathione
- pH scale and its biological importance.

✓ 6.

Discuss in detail the various factors which affects the enzyme activity. 10

7.

Describe the different types of lipids and their functions. 10

✓ 8.

Describe in detail the glycolysis. 10

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