

(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 : 5×2=10

(a) B-DNA and Z-DNA

(b) Isoenzyme and coenzyme

(c) Nucleosides and nucleotides

(d) Symbiotic and non-symbiotic nitrogen fixation

(e) 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 : 2½×4

(a) Heteropolysaccharides

(b) Sphingosine

(c) Glutathione

(d) 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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