

(Printed Pages 4)

(20518)

Roll No.....

M.Sc. (Bio-Tech.) - II Sem.

**NP-3334**

M.Sc.(Bio-Technology) Examination, May 2018

**FUNDAMENTAL OF BIO CHEMISTRY**

(H-201)

Time : Three Hours ] [Maximum Marks : 50

**Note :** Attempt **all** the questions as per instructions.

### **Section - A**

#### **(Very Short Answer Questions)**

**Note :** Attempt all **five** questions. Each question carries 2 marks. Very short answer is required, not exceeding 75 words.

1. Write the structure of any trisaccharide and name the bonds in between monomers.

P.T.O.

2. Write the structure of "CAMEL" and calculate the charge on it at pH 7.
3. Make structure of  $G \equiv C$  complex, showing hydrogen bonds in proper manner.
4. Write structure of xanthine, hypoxanthine and uric acid. Also name them by IUPAC pattern.
5. Write structure of FADH.

### **Section - B**

#### **(Short Answer Questions)**

**Note :** Attempt any **two** questions out of the following 3 questions. Each question carries 05 marks. Short answer is required, not exceeding 200 words.

6. What is the relation in between co-enzyme and second substrate? Explain with appropriate example.

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7. Justify with appropriate example that glycosidic bonds are not ester bonds.
8. In nucleic acid polymerization, chain elongation proceeds from 5' to 3', because 5' hydroxyl group is phosphorylated 1<sup>st</sup> in comparison of other hydroxyl group of pentose sugar. Why is it so? Explain.

### Section - C

#### (Detailed Answer Questions)

**Note :** Attempt any **three** questions out of the following 5 questions. Each question carries 10 marks. Answer is required in detail.

9. Discuss aerobic and anaerobic junction of metabolic pathway in reference of PDH and LDH mechanism.
10. Write various method of protein sequencing.

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P.T.O.

11. 1<sup>st</sup> you write the structure of purines and pyrimidines of nucleic acid then explain double helical structure of DNA.
12. Write a note about adrenal hormone and justify your views whether these comes under primary or secondary metabolites category.
13. What do you understand by  $\beta$ -oxidation. Explain in detail with its biochemical importance.

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