

2022

BMLT

(B.Sc. Second Semester End Examination-2022)

PAPER-IX

Full Marks: 40

Time: 02 Hrs

*The figures in the right hand margin indicate marks
Candidates are required to give their answers in their own words as
far as practicable*

Illustrate the answers wherever necessary

1) Answer any five questions from the following: 5x2= 10

- i. Differentiate between homoglycans and heteroglycans.
- ii. Differentiate between aldoses and ketoses.
- iii. What is gangliosides?
- iv. Define iodine number.
- v. Write two important functions of protein.
- vi. What are Isomerases? Give two examples.
- vii. What are co enzymes?
- viii. Write the significance of glycogenesis.

2. Answer any four questions from the following: 4x5 = 20

- i. Explain the pathway of glycogenesis with reaction sequence.

(2)

- ii. What is the rate limiting step of glycolysis? How many high energy phosphate bonds are produced during aerobic glycolysis of one mole of glucose? 2+3
- iii. Mention the disease that is caused due to deficiency of Vitamin D. What do you mean by Hypervitaminosis of D? 3+2
- iv. What is K_m ? Explain the 'Lock and Key' model for enzyme substrate interactions. 1+4
- v. Explain the effect of PH and temperature on the enzyme activity.
- vi. Write down the biological functions of carbohydrates Explain about the structure of Lactose. 2+3

3. Answer any one questions of the following: 1x10 = 10

- i. What is active site? Explain in detail about competitive inhibition. 2+8
 - ii. Explain the bio synthesis of urea and draw the line diagram of that path way 7+3
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