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Total No. of Printed Pages: [01]

Total No. of Questions: [09]

**B.Sc. (MLS/MLT) (Semester – 2<sup>nd</sup>)**

**BIOCHEMICAL METABOLISM**

**Subject Code: BMLS1-211**

**Paper ID: [130508]**

**Time: 03 Hours**

**Maximum Marks: 60**

**Instruction for candidates:**

1. Section A is compulsory. It consists of 10 parts of two marks each.
2. Section B consist of 5 questions of 5 marks each. The student has to attempt any 4 questions out of it.
3. Section C consist of 3 questions of 10 marks each. The student has to attempt any 2 questions.

**Section – A**

**(2 marks each)**

Q1. Attempt the following:

- a. Nucleic acid
- b. Transamination
- c. Glycogenesis
- d. Functions of lipase enzyme
- e. Water and fat soluble vitamins
- f. Different hormones involved in carbohydrate metabolism
- g. Ketosis
- h. Gluconeogenesis
- i. Essential amino acids with examples
- j. Nucleotides

**Section – B**

**(5 marks each)**

- Q2. Write a note on Pentose phosphate Pathway
- Q3. Explain Biosynthesis of cholesterol
- Q4. Define Urea cycle
- Q5. Define Salvage pathway
- Q6. What is a Role of antioxidants in human body?

**Section – C**

**(10 marks each)**

- Q7. Discuss in detail about Type III Glycogen Storage Disease
- Q8. Discuss importance of  $\beta$ -oxidation in the body.
- Q9. Explain biosynthesis and regulation of essential and non-essential amino acids