Roll No…….. **Total No. of Printed Pages: 1**

Total No. of Questions: [09]

B.Sc. MLS (Semester – 2nd)
BIOCHEMICAL METABOLISM
Subject Code: BMLS1211
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) Triglycerides
b) Ketone bodies
c) Galactose tolerance test
d) Lipoproteins
e) Non-competitive inhibition
f) Essential fatty acids
g) Allosteric modulation
h) Atherosclerosis
i) K_m value
j) Oxidative phosphorylation

Section – B **(5 marks each)**

Q2. Glycogen storage diseases
Q3. Regulatory role of Fatty acid synthase
Q4. Transamination and its significance
Q5. Fat soluble vitamins
Q6. Hexose Monophosphate shunt

Section – C **(10 marks each)**

Q7. Classify enzymes. Discuss their applications and factors affecting enzyme activity.
Q8. Describe TCA cycle along with its regulation.
Q9. Write a detailed note on lipid peroxidation.