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Total No. of Pages : 02

Total No. of Questions : 09

B.Sc. (MLS) (2013 to 2017) (Sem.-2)

**BIOCHEMICAL METABOLISM**

Subject Code : BMLS-205

M.Code : 48059

Time : 3 Hrs.

Max. Marks : 60

**INSTRUCTION TO CANDIDATES :**

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

**SECTION-A****Q1) Answer all of them :**

1. Classify enzymes.
2. What are essential amino acids? Give examples.
3. What is transamination?
4. Describe gluconeogenesis.
5. What are micelles?
6. Differentiate between LDL, VLDL and HDL.
7. What is Gout?
8. What is the importance of HMP pathway?
9. What is a catalyst? How it affects rate of reaction?
10. What is bile? Discuss its importance.

### SECTION-B

- Q2) Discuss various irreversible steps in glycolysis and how to bypass them during gluconeogenesis.
- Q3) Write a short note on phenylketonuria.
- Q4) What are allosteric enzymes? Explain with example.
- Q5) Explain urea cycle along with its disorders.
- Q6) Discuss various cancer drugs which target nucleic acid pathway.

### SECTION-C

- Q7) Discuss how many of ATP molecules are generated in aerobic respiration. Explain in detail.
- Q8) Discuss glycogen storage diseases.
- Q9) What is beta oxidation? Explain with the help of an example.

**NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.**