

Roll No. 

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Total No. of Pages : 02

Total No. of Questions : 09

B.Sc. (MLS) (2018 Batch) (Sem.-2)

**BIOCHEMICAL METABOLISM**

Subject Code : BMLS-202-18

M.Code : 75898

Time : 3 Hrs.

Max. Marks : 60

**INSTRUCTIONS 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) Write briefly :**

- 1) What is substrate level phosphorylation?
- 2) Give name and function of various enzymes contained in pancreatic juice.
- 3) What are ketone bodies? Give examples.
- 4) Discuss carnitine shuttle.
- 5) Give examples of aromatic aminoacids.
- 6) What is oxidative deamination? Give examples.
- 7) What is active site of an enzyme?
- 8) What is the effect of competitive and non-competitive inhibitor on the  $V_{max}$  and  $K_m$  of an enzyme?
- 9) Name some lipoproteins and their significance.
- 10) What are isozymes? Give examples.

### SECTION-B

- Q2) Write short note on enzyme inhibition.
- Q3) Explain the structure of starch and glycogen.
- Q4) Define lipids and classify them with suitable examples.
- Q5) Explain pathway for the synthesis of purines.
- Q6) Discuss how ammonia is converted to urea.

### SECTION-C

- Q7) Explain the process of glycogenesis. What is the importance of glycogen synthase?
- Q8) Give pathway for fatty acid synthesis.
- Q9) Explain in detail the disorders of protein metabolism.

**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.**