Roll No. | | | | | | | | | | | | **Total No. of Pages : 02**

Total No. of Questions : 09

B.Sc. (MLS) (Sem.–2)

BIOCHEMICAL METABOLISM

Subject Code : BMLS-205

M.Code : 48059

Date of Examination : 20-12-22

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

1. Answer briefly :

a) What is the purpose of carnitine shuttle?

b) Write functions of albumin.

c) What is substrate level phosphorylation?

d) Define K_m value.

e) What is isoelectric pH of protein?

f) Why sucrose is known as invert sugar?

g) Give characteristics of genetic code.

h) What are prostaglandins?

i) What is oxidative deamination?

j) What is specificity of enzyme?

SECTION-B

2. Discuss role of cytochromes in electron transport chain.

3. Name the irreversible enzymes of glycolysis and key enzymes of gluconeogenesis.

4. Describe pyrimidine catabolism and its disorders.

5. Write a short note on transport and storage of ammonia.

6. Explain the different theories proposed for mechanism of enzyme substrate complex formation.

SECTION-C

7. Describe digestion and absorption of proteins.

8. Give an account of synthesis, transport and functions of HDL, LDL and chylomicrons.

9. Describe TCA cycle along with regulation and its energetic. Add a note on its amphibolic role.

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.