Roll No. | | | | | | | | | | | | |

Total No. of Pages : 02

Total No. of Questions : 09

B.Sc. (MLS) (2014 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

1) Answer briefly :

a) What is specificity of enzyme?

b) Write functions of albumin.

c) What are prostaglandins?

d) What is isoelectric pH of protein?

e) Why sucrose is known as invert sugar?

f) Define Km value.

g) Give characteristics of genetic code.

h) What is substrate level phosphorylation?

i) What is oxidative deamination?

j) What is the purpose of carnitine shuttle?

SECTION-B

2) Explain purine catabolism and its disorders.

3) Describe various mechanisms for regulation of blood glucose.

4) Explain fatty acid synthase-multienzyme complex and its regulatory role.

5) Write a detailed note on Phenylketonuria.

6) Define enzyme inhibition. Explain in detail the different types of inhibitions with suitable examples.

SECTION-C

7) Explain the electron transport chain. Mention the sites of ATP synthesis. Add a note on inhibitors and uncouplers of oxidative phosphorylation.

8) Explain denovo synthesis of cholesterol and its regulation. Add a note on cholesterol lowering drugs.

9) Describe the detoxication of ammonia by urea cycle. Explain its regulation and disorders.

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.