Roll No. ..... Total Printed Pages -4

F - 1267

B. Pharma. (Second Semester)
EXAMINATION, May - June, 2022
(New Course)
Paper Third
Biochemistry

Time : Three Hours] *[Maximum Marks:75*

Note: Attempt all section as directed.

Section-A

(Very Short Answer Type Questions)

(2 marks each)

Note : Attempt all the question :

1. What are types of diabetes mellitus?

2. What is the importance of electron transport chain?
3. Give two biological significance of cholesterol.
4. Write down the preventive measure for gout disease.
5. What are the difference between RNA and DNA?
6. How transcription and reverse transcription are differentiated from each other?
7. What are the key relationship between free energy, enthalpy and entropy?
8. Define different theories of enzyme.
9. Give four examples of protein synthesis inhibitor.
10. Define translation.

Section-B

(Long Answer Type Questions)

(10 marks each)

Note : Attempt any *two* questions. Each question carries 10 marks.

1. Explain hexose monophosphate shunt with the help of diagram and add a note on its significance.

2. Define β oxidation of fatty acids. Explain de novo synthesis of fatty acids with its significance.

3. What is enzyme? Give a brief about IUB classification of enzyme. Explain the enzyme kinetics with reference to Michaelis Equation

4. Explain glycolysis pathway energetics and its significance.

Section-C

(Short Answer Type Questions)

(5 marks each)

Note : Attempt any 7 questions. Each question carries 5 marks.

1. Define carbohydrates. Explain classification, chemical nature, and biological role of Carbohydrates.

2. Differentiate between transamination the deamination and deacarboxylation.

3. Discuss in detail about therapeutic and diagnosis application of enzymes and isoenzymes.

4. Write the biological significances of ATP and cyclic AMP.

5. Explain Conversion of pyruvate to acetyl CoA

6. How hormonal regulation of blood glucose occur?

7. What are the deficiency caused by glucose 6 phosphate dehydrogenase?

8. Explain different disorder occur due to the lipid metabolic disorder.

9. Define oxidative phosphorylation along with its mechanism.