B.Pharm. Second Semester (New)

35341 : Biochemistry : BP 203 T

P. Pages : 1 AW - 2340

Time : Three Hours Max. Marks : 75

Notes : 1. Answer **all** questions.
2. Diagrams and chemical equations should be given wherever necessary.
3. Illustrate your answer necessary with the help of neat sketches.

1. Solve the following question. **20**

i) Define coenzyme.

ii) Define enthalpy and entropy.

iii) What is glycolysis?

iv) Enlist disorder of Amino acid metabolism.

v) What is phenylketonuria?

vi) What is competitive inhibition?

vii) Define endergonic and exergonic reaction.

viii) Define Biomolecules.

ix) What is glycosuria?

x) Give example of Monosaccharides.

2. Long answer questions **any two.** **20**

a) Define enzyme. Explain in detail enzyme inhibitors with example.

b) Explain HMP shunt pathway. Give its regulation with significance.

c) Explain transamination, deamination and decorbonylation reaction of amino acid metabolism.

3. Short answer questions **any seven.** **35**

a) Explain biological significance of ATP and CAMP.

b) Explain formation of ketone bodies. What is ketoacidosis?

c) Discuss the role of insulin and glucagon in blood glucose level regulation.

d) Write a note on biological significance of cholesterol and its synthesis step.

e) Explain in detail Hyperuricemia and goat diseases.

f) Write a note on metabolic disorder of urea cycle.

g) What is β oxidation ? Describe the role of carnitine in fatty acid metabolism.

h) Explain the functions of various classes of Biomolecule.

i) Explain steps for protein synthesis.

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