R13

Code: 13R00403

B.Pharm II Year II Semester (R13) Supplementary Examinations May/June 2017

PHARMACEUTICAL BIOCHEMISTRY

Time: 3 hours Max. Marks: 70

PART - A

(Compulsory Question)

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1 Answer the following: (10 X 02 = 20 Marks)

(a) Write in brief on fatty acids present in cell membrane.
(b) Write short note on biological significance of acetyl CoA.
(c) Define apoenzyme.
(d) Write in brief on enzyme activators.
(e) Write in brief on factors effecting glycolysis.
(f) What is diabetes?
(g) What are transamination reactions?
(h) Explain the terms ureotelic and uricotelic.
(i) Define the terms VLDL and LDL.
(j) Write the methods used for estimation of glucose.

PART - B

(Answer all five units, 5 X 10 = 50 Marks)

UNIT - I

2 Write short notes on:

(a) Energetics of oxidative phosphorylation.
(b) Ionic transporters in cell membrane.

OR

3 Describe in detail the production of ATP and its biological significance.

UNIT - II

4 (a) Explain the clinical applications of enzymes and co-enzymes.
(b) Explain the mechanism of enzyme action.

OR

5 Write in detail about enzyme kinetics.

UNIT - III

6 (a) Explain how energy is generated in glycolysis.
(b) Write short notes on Krebs cycle.

OR

7 (a) Write a note on significance of Cori cycle.
(b) Write about uronic acid pathway.

UNIT - IV

8 (a) Write a note on urea cycle.
(b) Explain the β-oxidation of fatty acids.

OR

9 Discuss the general metabolic pathway for amino acids.

UNIT - V

10 Write the principle involved in the qualitative and quantitative analysis of urine for Bile Salts and Ketone bodies.

OR

11 Discuss different laboratory investigations used to assess liver function.

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