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# B.Pharm I Year II Semester (R15) Supplementary Examinations December 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) What is haemostasis?
  - (b) What is the significance of sodium pump?
  - (c) Define the term nucleotides.
  - (d) Write short note on induced fit mechanism of enzyme action.
  - (e) Write a note on significance of GLUT pathway.
  - (f) Write short note on glucagon.
  - (g) Write short notes on basic amino acids.
  - (h) Write the structure of protein.
  - (i) Write the composition of blood.
  - (j) Write any one kidney functioning test.

### PART – B

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

## UNIT – I

2 Discuss about the production of ATP and its biological significance.

### OR

- 3 (a) Explain the active and passive transport process.
  - (b) Write about molecular constituents of cell membrane.

## UNIT – II

- 4 (a) Discuss the significance of nucleic acids.
  - (b) Classify vitamins with suitable examples.

### OR

5 Discuss the role of lipids in biochemical process and mention its applications.

### (UNIT – III)

6 Describe in detail about glycolysis cycle.

### OR

7 Describe the process of glycogenolysis in carbohydrate metabolism.

## UNIT – IV

- 8 (a) Discuss about  $\beta$ -oxidation of fatty acids.
  - (b) Explain the synthesis pathway of cholesterol.

### OR

9 Discuss the biosynthesis of saturated and unsaturated fatty acids.

## UNIT – V

10 Write the principle involved in the qualitative and quantitative analysis of blood for glucose, SGPT and SGPOT.

OR

11 Explain the qualitative tests used to detect the functioning of liver.

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