Seat No: _____

PARUL UNIVERSITY FACULTY OF PHARMACY

Pharm.D Supplementary Examination November 2017

Year: 1	Date: 14/11/2017
Subject Code: 08207103	Time: 10:00 am to 1:00 pm
Subject Name: Medicinal Biochemistry	Total Marks: 70
Instructions	

1. Figures to the right indicate maximum marks.

2. Make suitable assumptions wherever necessary.

Q.1 Essay Type Questions. (any 2 out of 3) (15 Mark Each)

- 1. Define and explain: Active site, Ligases, Reaction specificity, Allosteric regulation, Latent enzymes.
- 2. (a) Define homo and hetero-polysaccharides. Describe the structure of three homo-polysaccharides.
 - (b) Write note on Mutarotation.
- 3. (a) Explain primary and secondary structure of protein.
 - (b) Discuss reactions of proteins.
- Q.2 Short Essay Type Questions. (any 4 out of 5) (5 Mark Each)
- 1. Write a short note on Glycolysis pathway.
- 2. Explain about beta oxidation of fatty acids.
- 3. Write a note on HMP shunt.
- 4. State factors affecting enzyme activity. Explain effect of pH and temperature on enzyme and substrate.
- 5. Define oxidative phosphorylation. Discuss chemiosmotic hypothesis.

Q.3 Short Answers. (2 Mark Each)

- 1. Draw and explain structure of cell membrane.
- 2. Classify and explain Phospholipids.
- 3. State types of transport system across Cell-membrane. Explain about active diffusion.
- 4. Describe components of Electron transport system.
- 5. Write about synthesis of melanin.
- 6. Write a note on deamination reaction.
- 7. Enlist sulfur containing amino acids. Explain about it.
- 8. Define terms
 - i. Biological oxidation
 - ii. Catabolism
- 9. Write any two chemical tests of fats and oils.
- 10. Write a note on ATP.

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