

FACULTY**Pharm D (6–YDC) I – Year (Main & Backlog) Examination, July 2018****Subject: Medicinal Biochemistry****Time: 3 Hours****Max.Marks: 70****Note: Answer all questions from Part – A. Any Five questions from Part – B.****PART – A (10x2 = 20 Marks)**

- 1 Write the structural components of Eukaryotic ribosomes.
- 2 What is free energy and free energy change?
- 3 Write a note on glycogen storage diseases.
- 4 Write the characteristics of vesicular transport systems across cell membranes.
- 5 What is anion gap?
- 6 Explain briefly different states of nitrogen balance.
- 7 Explain the liver enzyme tests.
- 8 What is LDL-cholesterol and how it is measured from other components of lipid profile.
- 9 Write briefly the metabolic derangements in diabetes mellitus.
- 10 What is hemolytic jaundice? How is it diagnosed?

PART – B (5x10 = 50 Marks)

- 11 Explain in detail prokaryotic translation process.
- 12 Write the mechanism involved in regulation of body's acid-base balance and maintenance of blood pH.
- 13 Explain the characteristics of reversible enzyme inhibition with their kinetics.
- 14 List out various renal function tests and explain the tests based on glomerular function of kidneys.
- 15 Explain HMP pathway and its significance.
- 16 a) Write the procedure and interpretation of OGTT.
b) Explain the role of hormones in carbohydrate metabolism.
- 17 a) Explain dye tests for excretory function of liver.
b) Explain calcium and phosphate homeostasis in the body.
- 18 Explain β -oxidation of saturated fatty acids and write the total energy yield from complete oxidation of one molecule of palmitic acid.
