

FACULTY**Pharm. D (6 YDC) I- Year (Instant) Examination, January / February 2020****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)**

- 1 Write the physiological importance of HMGCoA reductase.
- 2 Write a note on oxidative phosphorylation.
- 3 Give the tests for any three abnormal constituents of urine.
- 4 What are Iso enzymes? Write their significance.
- 5 Write the IUB classification of enzymes.
- 6 What are lipoproteins? Give the composition of lipoproteins in human.
- 7 Write about the un-couplers of ETC.
- 8 Write a note on ELISA.
- 9 Write the diagnostic importance of Glucose oxidase and peroxidase.
- 10 Write the importance of insulin in glucose uptake and utilization.

PART B (5X10 = 50)

- 11 Explain the replication process in prokaryotes.
- 12 Explain Krebs cycle and discuss the energetics.
- 13 Discuss the factors affecting enzyme activity and add a note on isoenzymes used in diagnosis.
- 14 List out various liver function tests and explain the tests based on synthetic function and excretory functions of liver.
- 15 Explain urea cycle and discuss the metabolic disorders of urea.
- 16 List out the tests for non protein nitrogen and discuss tests for urea , uric acid and creatinine clearance in Urine and mention their diagnostic importance.
- 17 Discuss in detail about ELISA and discuss its applications in diagnosis.
- 18 Write the steps involved in ketogenesis and explain its regulation. Add a note on ketoacidosis.

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