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CM—07—2019

FACULTY OF PHARMACEUTICAL SCIENCES AND TECHNOLOGY

Pharm. D. (First Year) EXAMINATION

NOVEMBER/DECEMBER, 2019

MEDICINAL BIOCHEMISTRY

(Monday, 2-12-2019) **Time : 10.00 a.m. to 1.00 p.m.**

Time—3 *Hours* *Maximum Marks*—70

N.B. :— (*i*) *All* questions are compulsory.

(*ii*) Figures to the right indicate full marks.

(*iii*) Answer to the point only.

1. Answer the following (any *five*) : 5×2=10

(*a*) Why is LDL called a bad cholesterol while HDL a good cholesterol ?

(*b*) Define the terms Transamination and Deamination with reactions.

(*c*) What is mutation ?

(*d*) Enlist the metabolic disorder of Amino acid.

(*e*) Write about urine concentration test.

(*f*) Define the terms glycolysis and gluconeogenesis.

(*g*) What is meant by transcription and translation.

2. Answer the following (any *two*) : 2×6=12

(*a*) Draw neat labelled diagram of cell. Enlist the organells of cells and write its functions.

(*b*) Give the schematic representation of Glycogenesis and Glycogenolysis.

(*c*) What is HMP pathway ? Explain in detail the steps of this pathways.

P.T.O.

3. Answer the following (any *two*) : 2×6=12

(*a*) Describe in detail citric acid cycle with its energetics.

(*b*) Define enzyme. Classify enzyme with suitable examples.

(*c*) Write definition, etiology, pathophysiology and clinical manifestations of Atherosclerosis.

4. Answer the following (any *two*) : 2×6=12

(*a*) Write in detail about Electron Transport Chain (ETC).

(*b*) Write the principle, techniques and application of RIA.

(*c*) Classify kidney's function test. Describe any *two* tests with its clinical significance.

5. Answer the following (any *two*) : 2×6=12

(*a*) Give the schematic representation of purine metabolism.

(*b*) Give the schematic representation of glycogenesis and glycogenolysis.

(*c*) Write the principle, technique and application of RIA.

6. Answer the following (any *two*) : 2×6=12

(*a*) Write in detail the process of DNA replication.

(*b*) Write the various mechanisms of regulation of electrolyte balance.

(*c*) Describe in detail biosynthesis of cholesterol.