This question paper contains 2 printed pages]

## CL-07-2019

# FACULTY OF PHARMACEUTICAL SCIENCE AND TECHNOLOGY

### **D** Pharm. (First Year) EXAMINATION

#### MARCH/APRIL, 2019

#### MEDICINAL BIOCHEMISTRY

#### Paper 1.3

(Friday, 26-4-2019) Time : 10.00 a.m. to 1.00 p.m. Time-3 Hours Maximum Marks—70 N.B. := (i)All questions are compulsory. Figures to the right indicate full marks. (ii)(iii) Answer to the point only. 1. Answer the following (any *five*) :  $5 \times 2 = 10$ (a)Enlist various lipid profile test. *(b)* State factors affecting calcium absorption. Write short note on biomolecules. (c)Define the terms Nucleotides and Nucleosides. (d)(*e*) Define the following : (1)Co-enzyme (2)Apo-enzyme. (f)Write the difference between RIA and ELISA. Discuss the terms "Dehydration" and "Overhydration" (g)2. Answer the following (any two) :  $2 \times 6 = 12$ (a)Give sources, biochemical function and diseases of sodium. *(b)* Discuss in brief different laboratory investigation employed to evaluate liver function. (c)Write the principle, techniques and application of ELISA. P.T.O.

- CL-07-2019
- Answer the following (any two) : Describe in detail various transport processes across the cell (a)membrane. *(b)* What are enzymes ? Explain the factors affecting enzyme action. Explain in detail electron transport chain. (c)Answer the following (any two) : (a)Explain in detail about reaction involved in the synthesis of urea. *(b)* Give an account of  $\beta$ -oxidation of fatty acid with its energetics. (c)Define Isoenzymes. Give their clinical importance with example. Answer the following (any two) : (a)kidney function. *(b)* (c)Answer the following (any two) : Explain in detail major steps involved in protein syntheis. (a)*(b)* aerobic and anaerobic condition. (c)Explain in detail steps involved in DNA replication.
- WT

3.

4.

5.

 $2 \times 6 = 12$ 

CL-07-2019

 $2 \times 6 = 12$ 

 $2 \times 6 = 12$ 

 $2 \times 6 = 12$ 

(2)

- Enumerate function of kidney. Discuss in detail various test to assess
- Define fatty acid. Write in brief biosynthesis of fatty acids.
- Explain in brief various steps of TCA cycle with its energetic.
- 6.

  - Describe in detail Glycolysis pathway with its energetics under both

 $\mathbf{2}$