

# First Year Pharm-D:- Summer- 2019

## SUBJECT : MEDICINAL BIOCHEMISTRY

Day : Friday  
Date : 12-04-2019

Time : 10:00 AM TO 1:00 P.M  
Max. Marks : 70

S-2019- 4500

N.B.

- 1) Q.1 and Q.5 are **COMPULSORY**. And out of remaining solve **TWO** questions from each section.
- 2) Answer to both the section should be written in **SEPARATE** answer book.
- 3) Figures to the right indicate **FULL** marks.

### SECTION – I

- Q.1** A) Answer any **FOUR** of the following: (08)
- a) What is competitive enzyme inhibition?
  - b) What is frame shift mutation?
  - c) State any two biochemical reactions where vitamin folic acid is required.
  - d) What is egg white injury?
  - e) What is anti-serum? How it is obtained?
- B) What is immunoprecipitation? (03)
- Q.2** Describe glycolysis in detail. How its rate is regulated? (12)
- Q.3** a) State the biochemical role of transketolase and transaldolase in carbohydrate metabolism. (07)
- b) What is oxidative deamination? Explain with example. (05)
- Q.4** Write short note on any **THREE** of the following: (12)
- a) Regulation of blood pH
  - b) Calcium metabolism
  - c) Immunoelectrophoresis
  - d) Liver Function Test (LFT)

### SECTION – II

- Q.5** A) Answer any **FOUR** of the following: (08)
- a) What is clinical hyperglycemia?
  - b) What is ketosis?
  - c) What is renal atherosclerosis?
  - d) What is metabolic acidosis?
  - e) What are glycogenic amino acids?
- B) What is obstructive jaundice? (03)
- Q.6** What is multi-enzyme complex? Describe biosynthesis of fatty acid in detail. (12)
- Q.7** a) What are essential amino acids? Describe the deficiency of essential amino acids. (07)
- b) What is jaundice? Explain different types of jaundice. (05)
- Q.8** Write short note on any **THREE** of the following: (12)
- a) Lipoproteins
  - b) Vitamin B6
  - c) ELISA
  - d) Oxidative phosphorylation