

DOCTOR OF PHARMACY
First Year Pharm. D. : SUMMER : 2022
SUBJECT: MEDICINAL BIOCHEMISTRY

Day : Thursday
Date 12-May-2022

S-5726-2022

Time : 10:00 AM-01:00 PM
Max. Marks: 70

N.B:

- 1) **Q. No. 1 and Q. No. 5 are COMPULSORY.** And out of remaining solve any **TWO** questions from each section.
- 2) Answer to both sections should be **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 renal osteodystrophy?
 - b) What is favism?
 - c) What is frame shift mutation?
 - d) What is gout?
 - e) What is antibody enzyme conjugate?
- B)** What is enzyme denaturation? Give two examples. (03)
- Q.2** Describe mobilization of amino group of amino acid in detail. How its rate is regulated? (12)
- Q.3 a)** State importance of pentose phosphate pathway. (07)
- b)** What is oxidative deamination? Explain with example. (05)
- Q.4** Write short note any **THREE** of the following (12)
- a) Homeostasis of blood pH
 - b) Vitamin D and calcium metabolism
 - c) Renal clearance
 - d) Liver Function Tests (LFT)

SECTION - II

- Q.5 A)** Answer any **FOUR** of the following (08)
- a) What is glucosuria?
 - b) What is diabetic ketosis?
 - c) What is HDL?
 - d) What is MMA acidosis?
 - e) What are Ketogenic amino acids?
- B)** What is neonatal jaundice? (03)
- Q.6** What is replication? Describe in detail. (12)
- Q.7 a)** What are essential amino acids? State their physiological importance. (07)
- b)** Give outline of amino acid catabolism. (05)
- Q.8** Write short note any **THREE** of the following (12)
- a) Oxidative phosphorylation
 - b) Vitamin B12
 - c) Sodium – potassium Pump
 - d) Isoenzymes

* * *