

FIRST YEAR PHARM. D : SUMMER - 2018

SUBJECT: MEDICINAL BIOCHEMISTRY

Day: ~~Tuesday~~
Date: 10-04-2018

S-2018-4021

Time 10.00 AM to 01.00 PM
Max Marks: 70

N.B:

- 1) Question No 1 and 5 are **COMPULSORY**.
- 2) Out of remaining questions attempt **ANY TWO** questions from each section.
- 3) Figures to the right indicate **FULL** marks.
- 4) Answers to both the sections should be written in **SEPERTAE** answer book.

SECTION-I

- Q.1** A) Solve **ANY FOUR** of the following: (08)
- a) What is transamination?
 - b) What is clinical hyperglycemia?
 - c) Give clinical manifestation of the deficiency of enzyme methyl- malonyl coenzyme mutase.
 - d) Give importance of initiating codon.
 - e) Give structure of ATP.
- B) What is reverse transcription? (03)
- Q.2** What are essential amino acids? Give their examples and how urea cycle help in the process of ammonia detoxication. (12)
- Q.3** a) What is β - oxidation? Explain in detail. Give energetic of oxidation of palmitate. (08)
- b) State biochemical role of vitamin folic acid. (04)
- Q.4** Write short notes on **ANY THREE** of the following: (12)
- a) Renal acidosis
 - b) Glycogen biosynthesis
 - c) List any four abnormal constituents of urine with their clinical significance.
 - d) Lipoproteins

SECTION-II

- Q.5** A) Solve **ANY FOUR** of the following: (08)
- a) Define mutation. State examples of mutation.
 - b) What is competitive enzyme inhibition?
 - c) What is substrate level phosphorylation?
 - d) State the role of glucose- 6- phosphate dehydrogenase.
 - e) What is ketosis?
- B) State the role of transketolase in carbohydrate metabolism. (03)
- Q.6** What are enzymes? Give their classification with examples. (12)
- Q.7** a) What is gluconeogenesis? Explain in detail. (07)
- b) What are body fluids? Give their types. (05)
- Q.8** Write short notes on **ANY THREE** of the following: (12)
- a) Allosteric enzymes
 - b) Glycolysis
 - c) Biochemical significance of pentose phosphate pathway
 - d) Post translation modifications