

SUBJECT : PHARMACEUTICAL BIOCHEMISTRY – II

Day : Wednesday
Date : 14/11/2018

W-2018-4074

Time : 02.00 PM TO 05.00 PM
Max. Marks : 60

N.B.:

- 1) **Q.No.1 and Q.No.5 are COMPULSORY.** Out of the remaining questions attempt **ANY TWO** questions from each section.
 - 2) Answers to both the sections should be written in **SEPARATE** answer books.
 - 3) Figures to the right indicate **FULL** marks.
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SECTION – I

- Q.1** Attempt **ANY FIVE** of the following: [10]
- a) What is osteoporosis?
 - b) What is fructose intolerance?
 - c) State any two inhibitors of electron transport chain.
 - d) Give metabolic origin of uric acid.
 - e) What is ketosis?
 - f) What is transamination? Give one example.
- Q.2** a) Explain in brief Glycolysis with its significance. [07]
b) State the number of ATP formed when one mole of palmitate is completely oxidized to carbon dioxide and water by β -oxidation followed by TCA cycle. [03]
- Q.3** a) Describe the process of replication in detail. [07]
b) What is BMR? How it is measured? [03]
- Q.4** Write notes on **ANY TWO** of the following: [10]
- a) Propionate pathway
 - b) Oxidative phosphorylation
 - c) Role of vitamin D in calcium metabolism

SECTION – II

- Q.5** Attempt **ANY FIVE** of the following: [10]
- a) What is fluid balance?
 - b) What is non-gout urecemia?
 - c) What is point mutation?
 - d) State the role of enzyme phosphofructo kinase in glycolysis.
 - e) What are restriction enzymes?
 - f) What is reverse transcription?
- Q.6** a) What is β oxidation? Describe the oxidation of polyunsaturated fatty acids. [07]
b) Describe radio immune assay in detail. [03]
- Q.7** a) Explain in brief gluconeogenesis with its importance. [07]
b) Discuss Biochemical role of vitamin B₆. [03]
- Q.8** Write notes on **ANY TWO** of the following: [10]
- a) Genetic code
 - b) Importance of pentose phosphate pathway
 - c) Mutation