BACHELOR OF PHARMACY (B. PHARM.) (CBCS - 2015 COURSE)
S. Y. B. Pharm. Sem-III : WINTER : 2021
SUBJECT: PHARMACEUTICAL BIOCHEMISTRY-II

Day : Wednesday
Date : 12-01-2022 **W-13697-2021**
Time : 02:00 PM-05:00 PM
Max. Marks: 60

N. B. :

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

SECTION - I

Q. 1 Attempt **ANY FIVE** of the following: **(10)**

a) State energetics of tricarboxylic acid cycle.
b) What is β - Oxidation?
c) How Lactose is made available for glycolysis?
d) State any two biochemical reactions in which Vitamin – C is required.
e) What is substrate level phospharylation?
f) State chemical structure of ATP.

Q. 2 a) Explain glycolysis in detail? How it is regulated? **(07)**

b) State any two inhibiters of electron transport chain and their mode of action. **(03)**

Q. 3 a) What is transamination? Describe urea biosynthesis. **(07)**

b) What is gluconeogenesis? State its physiological importance. **(03)**

Q. 4 Write short notes on **ANY TWO** of the following: **(10)**

a) Biosynthesis of fatty acids
b) Oxidative phosphorylation
c) Regulation of blood glucose

SECTION - II

Q. 5 Attempt **ANY FIVE** of the following: **(10)**

a) What is methyl malonate acidosis?
b) What is DNA proof reading?
c) State biochemical role of vitamin Biotine.
d) What is BMR?
e) What is enzyme antibody conjugate? Give its application.
f) Describe the treatment of hypolycemia in short.

P. T. O.

Q. 6 **a)** What is electroyte balance? State functions of electrolytes. **(07)**

b) Give significance of pentose phosphate pathway. **(03)**

Q. 7 **a)** Describe the structure of DNA in detail. **(07)**

b) State properties of genetic code. **(03)**

Q. 8 Write short notes on **ANY TWO** of the following: **(10)**

a) Reverse Transcription
b) Glycogen storage disease
c) Kidney Function Tests (KFT)

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