

BACHELOR OF PHARMACY (B. PHARM.) (CBCS - 2015 COURSE)

S. Y. B. Pharm. Sem-III :SUMMER- 2022

SUBJECT : PHARMACEUTICAL BIOCHEMISTRY-II (T UE)

Day : Wednesday

Time : 02:00 PM-05:00 PM

Date : 13-07-2022

S-13697-2022

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) Draw neat and labeled diagrams **WHEREVER** necessary.
 - 4) Figures to the right indicate **FULL** marks.
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SECTION – I

- Q.1** Answer **ANY FIVE** of the following: **[10]**
- a) Draw the structure of ATP.
 - b) What is transamination?
 - c) Define ketone bodies.
 - d) Write the significance of HMP shunt.
 - e) Give any example of substrate level phosphorylation.
 - f) What is lactose intolerance?
- Q.2** a) Discuss β -oxidation in detail. **[06]**
b) Give energetics of citric acid cycle. **[04]**
- Q.3** a) What is Jaundice? Explain different types of Jaundice. **[06]**
b) What is decarboxylation of amino acids? Give its significance. **[04]**
- Q.4** Write short notes on **ANY TWO** of the following: **[10]**
- a) Electron transport chain
 - b) Glycogen storage disease
 - c) Abnormalities in lipoproteins

SECTION – II

- Q.5** Answer **ANY FIVE** of the following: **[10]**
- a) What is mutation?
 - b) Give applications of RIA.
 - c) What is biochemical role of sodium and potassium?
 - d) Explain genetic code and gene expression.
 - e) What is fluid balance?
 - f) What is transcription?
- Q.6** a) Explain in brief liver function test. **[06]**
b) What is PCR? Give its applications. **[04]**
- Q.7** a) What is clearance? Explain creatinine and urea clearance. **[06]**
b) What is protein urea? What are the causes of protein urea? **[04]**
- Q.8** Write short notes on **ANY TWO** of the following: **[10]**
- a) Recombinant DNA
 - b) Acid base balance
 - c) ELISA

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