

**BACHELOR OF PHARMACY (B. PHARM.) (CBCS-2019 COURSE)**  
**B. Pharm. Sem-II : WINTER : 2021**  
**SUBJECT: BIOCHEMISTRY**

**Day :** Saturday  
**Date :** 15-01-2022

**W-20662-2021**

**Time :** 10:00 AM-01:00 PM  
**Max. Marks:** 75

**N.B.**

- 1) All questions are **COMPULSORY**.
- 2) Answer to both sections should be written in **SEPARATE** answer books.
- 3) Figures to the **RIGHT** indicate **FULL** marks.

**SECTION -I**

**Q.1** Answer **ALL** the following objective type questions **(10X2)** **(20)**

- a) Explain in short disorders associated with defective catabolism of phenyl alanine and tyrosine.
- b) Write the role of m-RNA and t-RNA in translation process.
- c) Write the general structure of RNA.
- d) Write a note on Jaundice.
- e) Explain the factors regulating fatty acid synthesis.
- f) Describe the condition Gout.
- g) Explain biological significance of 5 – HT and melatonin.
- h) Write a note on phenylketoneurea.
- i) Explain in brief deamination.
- j) Describe the condition hypercholesterolemia.

**Q.2** Answer any **TWO** of the following **THREE** questions **(20)**

- a) Describe in detail palmitic acid synthesis and its clinical significance.
- b) Elaborate the process of protein synthesis and briefly explain its inhibitors.
- c) Explain in detail urea cycle and its clinical significance.

**SECTION -II**

**Q.3** Answer any **SEVEN** from the following **NINE** questions **(35)**

- a) Explain biological significance of ATP and Cyclic AMP.
- b) What is Enthalpy and Entropy? Add a note on Redox potential.
- c) Explain in detail Glycolysis with energetics.
- d) Explain in brief Glycogen metabolism pathways.
- e) Write a note on G6PD deficiency.
- f) Explain in detail Diabetes Mellitus.
- g) Explain in detail Citric acid cycle with energetics.
- h) Describe inhibitors of ETC and oxidative phosphorylation.
- i) Explain in brief biological role of Nucleic acids and Proteins.

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