

BACHELOR OF PHARMACY (B. PHARM.) (CBCS-2019 COURSE)

B. Pharm. Sem-II :SUMMER- 2022

SUBJECT : BIOCHEMISTRY

Day : Friday

Date : 12/8/2022

S-20662-2022

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) What are ketone bodies?
- b) Describe the condition phenylketonuria.
- c) Explain biological significance of dopamine
- d) Write a note on hypercholesterolemia
- e) Explain in short disorders associated with defective purine metabolism
- f) What is biological significance of cholesterol
- g) What is central dogma of life?
- h) Briefly explain the disorders associated with defective purine metabolism
- i) Describe the condition albinism
- j) Enlist the drugs that inhibit the enzymes associated with protein synthesis

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

- a) Describe in detail urea cycle and it's clinical significance.
- b) Elaborate the process of protein synthesis using neat labeled schematic diagram.
- c) Explain synthesis and utilization pathway of ketone bodies.

SECTION -II

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

- a) What is glycogen? Explain in detail gluconeogenesis
- b) Describe HMP Shunt and its significance
- c) What are biomolecules? Classify it with suitable examples
- d) Explain biological significance of ATP and cyclic AMP.
- e) What is Enthalpy and Entropy? Add a note on redox potential
- f) Explain in detail glycolysis with energetics.
- g) Explain citric acid cycle with its significance
- h) Write a note on glycogen storage diseases
- i) Describe ETC and it's mechanism
