

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

B. Pharm. Sem-II : WINTER- 2022

SUBJECT : BIOCHEMISTRY

Day : Tuesday

Time : 10:00 AM-01:00 PM

Date : 24-01-2023

W-20662-2022

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 the significance of carnitine shuttle in beta oxidation
- b) Describe the condition fatty liver.
- c) Explain biological significance of adrenaline
- d) Write a note on Atherosclerosis
- e) Explain in short disorders associated with defective catabolism of phenyl alanine and tyrosine
- f) Write the role of t-RNA in translation process
- g) Explain DNA double helix structure.
- h) Describe significance of enzyme DNA polymerase in DNA replication process.
- i) Describe the condition phenylketoneurea.
- j) What is the function of initiation and termination codons in protein synthesis?

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

- a) Describe in detail beta oxidation of saturated fatty acid and it's clinical significance.
- b) Elaborate the process of DNA replication in eukaryotes using neat labeled schematic diagram.
- c) Explain synthesis and significance of dopamine and adrenaline

SECTION -II

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

- a) Explain in brief biological role of nucleic acid and proteins.
- b) Describe energy rich compounds in detail.
- c) Explain oxidative phosphorylation and it's mechanism
- d) Explain in brief glycogen metabolism pathways.
- e) Write a note on 6-GPD deficiency
- f) Explain detail Diabetes mellitus
- g) Explain in detail citric acid cycle with energetics
- h) Describe inhibitors of ETC and oxidative phosphorylation
- i) Describe glycolysis with it's significance
