

BIOCHEMISTRY & CLINICAL PATHOLOGY
2nd Exam/Pharmacy/3033/Nov'24
(For 2021 Batch Onwards)

Duration: 3Hrs.

M.Marks:80

SECTION-A

Q1. Do as directed.

20x1=20

- a. What is the function of mitochondria?
- b. Define Peptide bond.
- c. What is a Glycosuria?
- d. What is major function of WBC in body?
- e. Define Reducing Sugar.
- f. What is mutarotation?
- g. Define Saponification value.
- h. What is Zwitterion?
- i. What is an allosteric site?
- j. What is anaemia?
- k. What is Isoenzymes?
- l. What is major function of sodium in body?
- m. Define Hypercholestroemia.
- n. What is Gluconeogenesis?
- o. Expand ESR.
- p. Give biochemical role of Calcium.
- q. Define Iodine number.
- r. What is Atherosclerosis?
- s. What is function of RNA?
- t. What is deficiency disease of vitamin C?

SECTION-B

Q2. Attempt any ten questions.

10x3=30

- i. Explain role of iron in life process.
- ii. Explain Anaemia and its types.
- iii. Write a note on structure of proteins.
- iv. Explain Transcription and Translation.
- v. Write short note on disorders of carbohydrate metabolism.
- vi. Explain biological value of proteins.
- vii. Give short note on enzyme inhibition.
- viii. Discuss diagnostic applications of Enzymes.
- ix. Discuss Urea cycle.
- x. Discuss causes of dehydration and oral rehydration therapy.
- xi. Write a note on applications of biotechnology in medicine.

SECTION-C

Q3. Attempt any six questions.

6x5=30

- a. Explain the Factors influencing enzymecatalysing activity.
- b. Give the schematic diagram of reactions involved in Glycolysis.
- c. Discuss in detail β oxidation of fatty acids.
- d. What are the main abnormal constituents of urine and how are they helpful in diagnosis of various diseases?
- e. Classify the carbohydrates with examples and explain the qualitative test for carbohydrates
- f. What are lipids? Classify them and discuss the role of lipids.
- g. Discuss in detail about Fat soluble vitamins.