

U.G. 5th Semester Examination-2021

CHEMISTRY

[PROGRAMME]

Skill Enhancement Course (SEC)

Course Code : CHEM-G-SEC-T-3

(Analytical Clinical Biochemistry)

Full Marks : 40

Time : 2 Hours

*The figures in the right-hand margin indicate marks.**Candidates are required to give their answers in their own words as far as practicable.*

1. Answer any **five** questions: $2 \times 5 = 10$
- What are Lipoproteins?
 - What is the relation of Cholesterol to Atherogenesis?
 - Write the function of HDLs?
 - What is composition of Urine Sediment.
 - What indication are found in presence of Leukocytes in urine?
 - What is Glycosuria?
 - What is Fibrous protein? Give example of Fibrous protein.
 - What do you mean by denaturation of proteins?
2. Answer any **two** questions: $5 \times 2 = 10$
- Write down the clinical and laboratory signs of

diabetes? What are the causes of Hypoglycaemia? $3+2=5$

- Discuss brief outline for managing diabetes. What do you mean by Insulin Analogues. $3+2=5$
 - Discuss the secondary structure of α -helix? What is peptide bond. Give an example. $3+2=5$
 - Discuss the relation between Coenzyme and cofactor. What is function of NADP or NADPH? $3+2=5$
3. Answer any **two** questions: $10 \times 2 = 20$
- Discuss advantages and disadvantages of biocatalyst and enzyme. Write the properties of Ribozymes. Indicates the two functions of Ribozymes. $5+3+2=10$
 - Discuss the composition of normal and pathological urine with an estimate of the concentration of unanalyzed substances.
 - Discuss the composition and function of blood. $5+5=10$
 - Write down the classification of carbohydrate. What is its biomedical importance? Write characterization of polysachharides. $4+2+4=10$

[Turn over]