

FACULTY OF PHARMACY

B. Pharmacy II - Semester (PCI) (Backlog) Examination, March 2024

Subject: Biochemistry

Time: 3 Hours

Max.Marks:75

PART - A

Note: Answer all the questions.

(10 x 2 = 20 Marks)

1. Define isoenzyme with examples.
2. What is denaturation and renaturation of proteins?
3. What are cofactors? Give examples.
4. What is alkeptonuria?
5. Write the inhibitors of ETC.
6. Write any two biochemical functions of cholesterol.
7. Define nucleosides and nucleotides.
8. What is Gout?
9. What are okazaki fragments.
10. Define free energy and redox potential.

PART - B

Note: Answer any two questions.

(2 x 10 = 20 Marks)

11. Describe the reactions involved in the de novo biosynthesis of fatty acids.
12. Explain citric acid cycle.
13. Explain the biological significance of Cholesterol and write the conversion of cholesterol into bile acids.

PART - C

Note: Answer any seven questions.

(7 x 5 = 35 Marks)

14. Explain the synthesis of bile acids.
15. Describe the structure and functions of tRNA.
16. Give the salient features of Genetic code.
17. Explain disorders of lipid metabolism.
18. Give biological significance of ATP and Cyclic AMP.
19. Explain Glycogenesis and Glycogenolysis.
20. Write the chemical classification of amino acids.
21. Write the synthesis and significance of melatonin.
22. Discuss about urea cycle.
