

**BIOCHEMISTRY**  
**Q.P CODE :105 – SDUU**

*Your answers should be specific to the questions asked.  
Draw neat labeled diagrams wherever necessary.*

**LONG ESSAY**

**2 X 10 = 20 Marks**

1. Define Ketonemia, Ketonuria and Ketosis. Explain the pathway of Ketogenesis and utilisation of Ketone bodies.
2. Functions and separation of Plasma proteins. Normal and abnormal patterns and their differences.

**SHORT ESSAY**

**10 X 5 = 50 Marks**

3. Metabolism of Glycine
4. Gluconeogenesis
5. Diagnostic importance of Enzymes
6. High energy compounds
7. Specialised products formed from Tryptophan
8. Recombinant DNA Technology
9. Ascorbic acid
10. Porphyrins
11. Purine salvage pathway
12. Copper



**SHORT ANSWERS**

**10 X 3 = 30 Marks**

13. Proteins of cell membrane
14. Enzymes as tumour markers
15. Biological antioxidants & functions
16. Significance of Hexose monophosphate shunt
17. Transmethylation
18. External quality control
19. Vandenbergh test
20. Tubular function tests
21. Hyponatremia & Hypokalemia
22. Nitrogen balance