

**Second Year B.Sc (MLT) Degree Examinations, October 2012**

**BIOCHEMISTRY-II**

**Time: 3 Hours**

**Total Marks: 100**

- Answer all Questions.
- Draw Diagrams wherever necessary.

**Essay**

**(2x10=20)**

1. How glucose is metabolized by glycolytic pathway. Explain briefly on its energetics and regulation. (7+3=10)
2. Discuss various methods of total protein estimation and explain any one of them in detail. (4+6=10)

**Short notes**

**(10x5=50)**

3. Cerebrospinal fluid analysis.
4. Glucose tolerance test.
5. Prostaglandin.
6. Estimation of vitamin C.
7. Significance of tri carboxylic acid cycle for lipoprotein estimation.
8. Sampling and storage of blood.
9. Thiamine.
10. Marasmus.
11. LDL metabolism
12. Degradation of purines.

**Answer briefly**

**(10x3:30)**

13. Orotic aciduria
14. Benedict's test.
15. Compounds formed from serine.
16. Biochemical functions of vitamin D.
17. Homocystinuria.
18. Substrate level phosphorylation.
19. Inhibitors of electron transport chain
20. Polyamines
21. Galactosemia.
22. Transmethylation reactions