

**Second Year B.Sc MLT Degree Examinations, October 2015****BIOCHEMISTRY-II****Time: 3 Hours****Total Marks: 100**

- Answer all Questions.
- Draw Diagrams wherever necessary.

**Essay****(2x10=20)**

1. What is normal fasting lipid profile. Discuss the causes of hyperlipidemia
2. How will you diagnose diabetes mellitus. What are the laboratory investigations required for the follow up of a diabetic patient.

**Short notes****(10x5=50)**

3. Normal inorganic constituents of urine
4. Liver function tests
5. CSF analysis
6. Functions of vitamin D
7. Significance of glucose 6 phosphate dehydrogenase
8. Urea cycle
9. Laboratory diagnose of in born errors of amino acid metabolism
10. Glycogen storage disorder
11. Differential diagnosis of glycosuria
12. Basal metabolic rate

**Answer briefly****(10x3=30)**

13. Substrate for gluconeogenesis
14. FIGLU excretion test
15. Serotonin
16. Prostaglandins
17. Bence Jones protein
18. Carnitine
19. Lesch & Nyhan syndrome
20. Beriberi
21. Estimation of creatinine
22. Ketonuria