

**QP CODE: 401012**

**Reg No:.....**

**Final Year B.Sc MLT Degree Supplementary Examinations, April 2015**

**BIOCHEMISTRY - IV**

**Time: 3 Hours**

**Total Marks: 100**

- Answer all Questions.
- Draw Diagrams wherever necessary.

**Essay**

**(2x10=20)**

1. Discuss the organization and waste management of a clinical biochemistry laboratory
2. Define translation and discuss its steps. What are the post translational modifications

**Short notes**

**(10x5=50)**

3. Dry chemistry systems
4. Synthesis of thyroid hormones and methods available for its estimation
5. Laboratory findings in pre hepatic, hepatic and post hepatic jaundice
6. Southern blotting
7. Estimation of urinary 17 ketosteroids and its significance
8. Significance of specific gravity of urine in renal function tests
9. Metabolic acidosis
10. Clearance tests
11. Significance of fecal fat and methods of estimation
12. Mechanism of action of steroid hormones

**Answer briefly**

**(10x3=30)**

13. What is the normal level in serum of : • Sodium • Potassium • Calcium
14. Action of insulin on lipid metabolism
15. Bohr effect
16. Anion gap
17. Hypocalcemia
18. PCR
19. Urobilinogen
20. Significance of sweat chloride estimation
21. Hemochromatosis
22. Biochemical role of zinc

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