

**QP CODE: 401012**

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

**Final Year B.Sc MLT Degree Examinations, September 2014**

**BIOCHEMISTRY - IV**

**Time: 3 Hours**

**Total Marks: 100**

- Answer all Questions.
- Draw Diagrams wherever necessary.

**Essay**

**(2x10=20)**

1. Discuss in detail the tests to assess glomerular function of the kidney
2. Discuss the body buffer systems in detail

**Short notes**

**(10x5=50)**

3. Tests to assess fetal lung maturity
4. Describe the regulation of blood calcium
5. Genetic code
6. Tests to assess hepatic injury
7. Methods to estimate serum sodium
8. Tests to detect occult blood in feces
9. Describe the synthesis of VMA and its estimation in urine
10. Describe the merits and demerits of dry chemistry analysers
11. Action of insulin in regulating blood glucose
12. Hypothyroidism

**Answer briefly**

**(10x3=30)**

13. What is PCR and mention its significance
14. Describe three salient features of metabolic acidosis
15. Define osmolality and mention the normal plasma osmolality
16. Biochemical role of iodine
17. Formation of progesterone
18. Three characteristics findings in obstructive jaundice
19. Sweat chloride test
20. Define precision and accuracy
21. Normal levels of: •  $PO_2$  •  $PCO_2$  • Serum bicarbonate
22. Name three inhibitors of transcription.

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