

**QP CODE: 401012**

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

**Final Year B.Sc MLT Degree Examinations September 2017**

**BIOCHEMISTRY - IV**

**Time: 3 Hours**

**Total Marks: 100**

- Answer all Questions.
- Draw Diagrams wherever necessary.

**Essay**

**(2x10=20)**

1. Discuss the parts, functions, merits and demerits of fully automatic analyzer. (3+2+3+2)
2. What is normal blood pH. How pH is regulated by body buffer system and kidney (1+5+4)

**Short notes**

**(10x5=50)**

3. External quality control programme
4. Establishment and uses of reference values
5. Different methods of estimation of steroid hormones
6. Post transcriptional modification
7. PCR
8. Pre-analytical variables
9. Liver enzymes
10. Flame photometry
11. Tubular function test
12. DNA repair

**Answer briefly**

**(10x3=30)**

13. Gene therapy
- 14.5 HIAA
15. Fecal fat estimation
16. Biochemical assay for fetal lung maturity
17. Principles of colorimetry
18. Estimation of copper in serum.
19. Osmolality
20. Protein targeting
21. Determination of urinary oestriol
22. Titrable acidity

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