

**QP Code: 302020**

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

**Third Year B.Sc. Medical Biochemistry Supplementary Examinations  
March 2019  
Clinical Biochemistry**

**Time: 3 Hours**

**Total Marks: 80**

- **Answer all questions**
- **Draw diagrams wherever necessary**

**Essay**

**(2x15=30)**

1. Describe in detail the biochemical basis and clinical features of diabetes mellitus.  
Describe the laboratory diagnosis of DM.
2. What is atherosclerosis. Discuss lipid profile parameters

**Short Essay**

**(2x10=20)**

3. Blood buffers
4. Plasma proteins

**Short Answers**

**(4x5=20)**

5. Normal constituents of urine
6. Regulation of plasma osmolarity
7. Adulterants in food
8. Toxic effects of ethanol

**Comment on**

**(5x2=10)**

9. Anion gap
10. Ceruloplasmin
11. Functions of zinc
12. Detoxification of aspirin
13. Two causes of respiratory acidosis

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