

**Q.P. CODE: 113019**

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

**First Year B.Sc Medical Microbiology & Medical Biochemistry Degree  
Regular/Supplementary Examinations August 2019**

**Paper III – General Biochemistry**

**(2016 Scheme)**

**(Common for both specialty)**

**Time: 3 Hrs**

**Max. Marks: 50**

- Answer all questions
- Draw diagram wherever necessary

**Essays:**

**(2x10=20)**

1. Discuss the dietary sources, recommended daily allowance (RDA), functions and deficiency manifestations of calcium.
2. Classify Vitamins. Explain the sources, RDA, functions and clinical manifestations of Vitamin A deficiency

**Short Notes:**

**(2x5=10)**

3. Compare eukaryotic and prokaryotic cells
4. Secondary structure of proteins

**Answer briefly:**

**(10x2=20)**

5. Classify lipids
6. Henderson - Hasselbalch equation and its applications
7. Types of RNA
8. Reverse osmosis
9. Nucleotides
10. Beriberi
11. Role of plasma buffers
12. Glycogen
13. Essential amino acids
14. Major classes of plasma lipoproteins

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