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RAN-1903000202030062**B.Sc. (Microbiology) (Sem. II) Examination****March / April - 2019****MB 04 : Biomolecules of Microorganisms****Time: 2 Hours]****[Total Marks: 50****સૂચના : / Instructions****(1)****નીચે દર્શાવેલ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.****Fill up strictly the details of signs on your answer book**

Name of the Examination:

B.Sc. (Microbiology) (Sem. II)

Name of the Subject :

MB 04 : Biomolecules of MicroorganismsSubject Code No.: **1903000202030062**

Seat No.:

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Student's Signature

(2) Figures to the right indicate full marks of the question.**(3) Draw neat and labeled diagrams whenever necessary.****Q-1: Give specific Answer****(12)**

- Enlist any two functions of carbohydrates.
- What are enantiomers and diastereomers?
- Define: Zwitterion.
- Give elemental composition of proteins.
- What is Chargaff's rule?
- Write two differences between DNA and RNA.

Q-2: Answer the Following (Any Two)**(12)**

- Define polysaccharide. Describe the homo-polysaccharides.
- Explain classification and function of lipids.
- Write a note on steroids.

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Q-3: Discuss in detail (Any Two) (16)

- (a) Explain various reactions shown by monosaccharides with suitable example.
- (b) Write a detailed note on determination of primary structure of protein.
- (c) Explain structure and types of RNA in detail.

Q-4: Write Short notes on following (Any Two) (10)

- (a) Functional & nutritional classification of protein.
 - (b) Organization of DNA in eukaryotic and prokaryotic cells.
 - (c) Amphipathic lipid.
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