

**BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI  
(MID SEMESTER EXAMINATION)**

**CLASS: BHMCT  
BRANCH: HMCT**

**SEMESTER: I  
SESSION : MO/2019**

**SUBJECT : HM101 FOOD SCIENCE NUTRITION**

**TIME: 2.00 HOURS**

**FULL MARKS: 25**

**INSTRUCTIONS:**

1. The total marks of the questions are 25.
  2. Candidates may attempt for all 25 marks.
  3. Before attempting the question paper, be sure that you have got the correct question paper.
  4. The missing data, if any, may be assumed suitably.
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- Q1 (a) Point out the characteristics of carbonyl group of monosaccharide and disaccharide. [2]  
Q1 (b) Define epimers & draw the structure of different types of epimers. [3]
- Q2 (a) Outline the biological importance of glycolysis. [2]  
Q2 (b) Explain oxidative respiration. [3]
- Q3 (a) Illustrate fibrous protein. [2]  
Q3 (b) Classify protein based on biological function. [3]
- Q4 (a) Explain amino acids as ampholytes. [2]  
Q4 (b) Describe complex protein. [3]
- Q5 (a) Classify lipids on basis of its functions. [2]  
Q5 (b) Distinguish between PUFA and MUFA. [3]

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