

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

**CLASS: IMSc
BRANCH: FOOD TECHNOLOGY**

**SEMESTER: V
SESSION : MO/2019**

SUBJECT : IMF5001 FOOD PACKAGING TECHNOLOGY

TIME: 1.5 HOURS

FULL MARKS: 25

INSTRUCTIONS:

1. The total marks of the questions are 30.
 2. Candidates may attempt for all 30 marks.
 3. In those cases where the marks obtained exceed 25 marks, the excess will be ignored.
 4. Before attempting the question paper, be sure that you have got the correct question paper.
 5. The missing data, if any, may be assumed suitably.
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- Q1 (a) State some of the commonly accepted definitions of packaging. [2]
(b) Describe the various features of consumer packaging. [3]
- Q2 (a) Write down the principles of protective packaging. [2]
(b) How design factors play a critical role in packaging? [3]
- Q3 (a) Define Intelligent Packaging. [2]
(b) Discuss the role of oxygen scavenger in active packaging. [3]
- Q4 (a) Why there is a need for antimicrobial packaging? [2]
(b) How does gas indicator work in intelligent packaging? [3]
- Q5 (a) What are Non-migratory Bioactive polymers (NMBP)? [2]
(b) Write down the advantages of NMBP. [3]
- Q6 (a) What are the different types of NMBP? Discuss. [2]
(b) Short Notes: Chitosan [3]

:::::: 19/09/2019 ::::::::E