

BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI
(END SEMESTER EXAMINATION)

CLASS: IMSc
BRANCH: FOOD TECH

SEMESTER : VI
SESSION : SP/2023

SUBJECT: FT330R1 FOOD PACKAGING TECHNOLOGY

TIME: 3 Hours

FULL MARKS: 50

INSTRUCTIONS:

1. The question paper contains 5 questions each of 10 marks and total 50 marks.
 2. Attempt all questions.
 3. The missing data, if any, may be assumed suitably.
 4. Before attempting the question paper, be sure that you have got the correct question paper.
 5. Tables/Data hand book/Graph paper etc. to be supplied to the candidates in the examination hall.
-

| | | | | |
|--------|--|-----|-----|-----|
| Q.1(a) | Discuss various methods that can be used for food preservation. | [8] | CO1 | BL2 |
| Q.1(b) | List the critical factors required for need for changes in package design. | [2] | CO2 | BL1 |
| Q.2(a) | Write short notes on the manufacture of paper and paperboard. | [8] | CO3 | BL2 |
| Q.2(b) | Define technical shelf life. | [2] | CO3 | BL1 |
| Q.3(a) | Explain various methods of coatings of plastics. | [5] | CO5 | BL3 |
| Q.3(b) | Discuss gravure printing with a neat sketch. | [5] | CO2 | BL2 |
| Q.4(a) | Define active and intelligent packaging techniques. | [4] | CO3 | BL1 |
| Q.4(b) | Explain different classifications of time temperature indicator (TTI). | [6] | CO3 | BL2 |
| Q.5(a) | Discuss any two types of biopolymers. | [5] | CO2 | BL2 |
| Q.5(b) | Write short notes on improving the recyclability of plastics packaging. | [5] | CO5 | BL2 |

.....28/04/2023.....M