

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

CLASS: B.TECH.
BRANCH: CHEMICAL ENGINEERING

SEMESTER : VII
SESSION : MO/2025

SUBJECT: CL425 PLASTIC PACKAGING TECHNOLOGY

TIME: 02 HOURS

FULL MARKS: 25

INSTRUCTIONS:

1. The question paper contains 5 questions each of 5 marks and total 25 marks.
 2. Attempt all questions.
 3. The missing data, if any, may be assumed suitably.
 4. Tables/Data handbook/Graph paper etc., if applicable, will be supplied to the candidates
-

		CO	BL
Q.1(a)	What are the requirements of effective food packaging?	[2] 1	1
Q.1(b)	Mention two climate hazards affecting packaging.	[3] 1	2
Q.2(a)	Explain two functions of a package.	[2] 1	2
Q.2(b)	What design factors should be considered for packaging a new product?	[3] 1	1
Q.3(a)	Differentiate between LDPE, LLDPE, and HDPE.	[2] 3	2
Q.3(b)	What are the characteristics, advantages, and applications of PVC in packaging?	[3] 3	1
Q.4(a)	State the purposes of coating plastic films.	[2] 4	3
Q.4(b)	Discuss PET as a packaging material: manufacturing, properties, and packaging applications	[3] 3	2
Q.5(a)	What is a retort pouch? Mention two advantages.	[2] 4	1
Q.5(b)	Discuss gravure printing methods for plastic films.	[3] 4	2

:::::22/09/2025 ::::M