



VII SEMESTER B.TECH. (PRINT AND MEDIA TECHNOLOGY)

END SEMESTER EXAMINATIONS, DECEMBER 2020

SUBJECT: PACKAGING DESIGN AND TESTING [PMT 4101]

**REVISED CREDIT SYSTEM
(23/12/2020)**

Time: 3 Hours

2:00-5:00 PM

MAX. MARKS: 50

Instructions to Candidates:

- ❖ Answer **ALL** the questions.
- ❖ Missing data may be suitable assumed.

1A.	i) Discuss the influence of product factors on packaging design. ii) With neat diagram, explain mailer lock carton style.
1B.	With neat diagram, explain various steps involved in the process of manufacturing glass.
1C.	Discuss the factors to be considered before package design.
	[(02+02) + 03 + 03]
2A.	Explain 4 climatic tests done on a package.
2B.	With neat diagram, explain aerosol valve assembly.
2C.	With neat diagram, explain the working of plasticating extruder.
	[04 + 03 + 03]
3A.	i) Write notes on Personalized packaging ii) With neat diagram, explain the process of manufacturing Double face corrugated boards.
3B.	With neat diagram, explain the process of manufacturing 3 piece cans.
3C.	With neat diagram, explain the process of manufacturing plastic substrates using standard blown film process.
	[(02+02) + 03 + 03]
4A.	i) With neat sketch, explain various parts of a glass bottle. ii) What are the advantages and disadvantages of metal packaging?
4B.	Explain various physical tests conducted on glass containers.

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4C.	Discuss the various areas in which computer aided design can be utilized in packaging.
	[(02+02) + 03 + 03]
5A.	<p>i) With neat diagram, explain the process of manufacturing 2 piece cans using Drawn and Wall Iron (DWI) method.</p> <p>ii) With neat diagram, explain the method of plug-assist thermoforming used for making plastic containers.</p>
5B.	Discuss the 3 variations of Standard Tuck End carton style with neat sketches.
5C.	With neat diagram, explain various stages of packaging cycle.
	[(02+02) + 03 + 03]