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## VII SEMESTER B.TECH. (PRINT AND MEDIA TECHNOLOGY) END SEMESTER ONLINE EXAMINATIONS, MARCH 2021

SUBJECT: PACKAGING DESIGN AND TESTING [PMT 4101]

## REVISED CREDIT SYSTEM (17/03/2021)

Time: 3 Hours 2:00-5:00 PM MAX. MARKS: 50

## **Instructions to Candidates:**

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

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With neat sketches, explain 6 handling marks commonly used in packages.								
Explain the 2 methods of making glass containers with diagrams.								
i) Compare greaseproof and glassine papers used for packaging.								
ii) Explain the process of manufacturing DWI cans with diagram.								
			[03+ 03 + (02+02) ]					
With	neat sket	ches, explain 3 v	ariation in Reverse Tuck End (RTE) style					
carton design.								
With neat diagrams, explain roller and air-less spray methods of applying								
coating on metal containers.								
i) Explain various steps involved in filling an aerosol container.								
ii) With neat diagram, explain the process of manufacturing BOPP film.								
			[03+ 03 + (02+02) ]					
Discuss the influence of distribution factors on package design.								
With neat sketches, explain various types of closures made up of metal.								
i) Discuss various treatments done on plastic substrates after forming.								
ii) Compare injection molding and thermoforming processes.								
			[03+ 03 + (02+02) ]					
With	sketch, ex	plain the purpose	and procedure of following tests done on					
corrugated boards;								
i)	RCT	ii) PAT	iii) Mullen test					
	Expla i) ii) With cartor With coatin ii) iii) With r ii) corrug	i) Compare ii) Explain t  With neat skete carton design.  With neat diag coating on meta i) Explain v ii) With neat  Discuss the influt With neat skete i) Discuss v ii) Compare  With sketch, explain v corrugated boar	i) Compare greaseproof and ii) Explain the process of man With neat sketches, explain 3 v carton design. With neat diagrams, explain rolle coating on metal containers. i) Explain various steps involv ii) With neat diagram, explain  Discuss the influence of distribution With neat sketches, explain various i) Discuss various treatments ii) Compare injection molding  With sketch, explain the purpose corrugated boards;					

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4B.	List and explain the 5 methods of manufacturing thermoformed plastics							
4D.	containers.							
4C.	i) Discuss various types of resilient cushioning materials.							
40.	ii) Write notes on various flute profiles of corrugated board.							
	[03+ 03 + (02+02)]							
5A.	With neat diagram, explain various parts of an aerosol valve.							
5B.	With neat diagram, explain the working principle of plasticating extruder.							
5C.	i) Write notes on Vintage and minimalist product packaging trends.							
30.	ii) Explain 2 types of desiccants used for packaging.							
	[03+ 03 + (02+02)]							

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