

B)	Discuss Chemical Machining (ChM) and Photochemical Machining, including etching processes and industrial applications.	Principle – 4 Etching process – 4 Applications – 4	12
Q.4	Solve Any one of the following.		
A)	Compare Electron Beam Welding (EBW) and Laser Beam Welding (LBW) in terms of heat input, penetration, advantages, and applications.	Heat input & penetration – 4 Advantages – 4 Applications – 4	12
B)	Explain the principle, setup, and applications of Explosive Forming. Discuss its advantages and limitations.	Principle – 4 Setup & working – 4 Applications + pros/cons – 4	12
Q. 5	Solve Any one of the following.		
A)	Discuss Nanotubes, Nanowires, and Nanofabrication techniques, and explain their applications in aerospace, biomedical, and automotive industries.	Nanotubes – 4 Nanowires – 4 Applications – 4	12
B)	Explain Additive Manufacturing processes such as FDM, SLS, and SLM, comparing their working principles and applications.	FDM – 4 SLS – 4 SLM – 4	12
	*** End ***		