SE/Sem 14/pmd/(BGS/monufactioning Engg. II | 08-12-2016



Q.P. Code: 559601

(3 Hours) [Total Marks: 80

N.B.: (1) Question No. ONE is compulsory.	
(2) Attempt any THREE questions from remaining FIVE questions.	
(3) Support your answer with sketch wherever necessary	
(4) All questions carry equal marks.	
1. Explain in brief:-	20
(a) Pultrusion process of composite manufacturing.	
(b) Laser beam machining.	
(c) Thread whirling process.	
(d) Gear shaping process.	
2. (a) Explain the process of Ultrasonic Machining with its advantages, limitat	ions 10
and applications.	
(b) Explain the composite manufacturing processes of filament winding	and 10
Spray- up.	
3. (a) Explain loading, glazing and dressing of grinding wheels. How to spe	cify 10
a grinding wheel?	
(b) Briefly, explain the process of thread rolling with its advantages, limitat	ions 10
and applications	
4. (a) Describe the capabilities and characteristics of machining centers.	10
C C -india-machines	10
(b) Briefly explain different types of surface grinding machines.	
5. (a) Explain with a neat block diagram ECM.	10
(b) State the differences between NC and CNC machine tools.	10
6. (a) Explain in detail the process of center less grinding.	10
(b) Explain in detail gear hobbing process of gear manufacturing.	10