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Reg. No. :						
Question Paper Code: 20808						
B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2018.						
Fourth/Sixth Semester						
Mechanical Engineering						
ME 6402 — MANUFACTURING TECHNOLOGY — II						
(Common to : Mechanical Engineering (Sandwich)/Industrial Engineering and Management/Industrial Engineering/Mechanical and Automation Engineering)						
(Regulations 2013)						
(Also Common to : PTME 6402 – Manufacturing Technology – II for B.E. (Part-Time) – Third Semester – Mechanical Engineering – (Regulations – 2014))						
Time: Three hours Maximum: 100 marks						
Answer ALL questions.						
PART A — $(10 \times 2 = 20 \text{ marks})$						
1. Define Tool wear.						
2. Deduce the factors that contribute to poor surface finish in cutting process.						
3. State the advantages of automats over conventional lathes.						
4. Write down any four operations performed on a center lathe.						
5. What is broaching operation?						
6. How do you classify milling cutters?						
7. Mention the factors involved in the selection of a grinding wheel.						
8. Name any four abrasives used in manufacture of grinding wheels.						
9. Compare NC with CNC in machining process.						
10. What is micromachining?						

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		PART B — (5 × 13 = 65 marks)	
11.	(a)	Detail the nomenclature of single point cutting tool with illustrasketches.	ative
		Or	
	(b)	(i) Classify the types of chip formation and elaborate its types.	(8)
		(ii) Write short notes on the following:	
		(1) Rake angles	(3)
		(2) Cutting fluids.	(2)
12.	(a)	(i) Detail the procedure for thread cutting operation.	(10)
		(ii) How special attachments help in improving the productivity?	(3)
		Or	
	(b)	Discuss about the construction and working principle of Single spi automatic screw type machine with illustrative sketch.	indle
13.	(a)	(i) Classify the different types of milling cutter and outline each illustrative sketch.	19.00
		(ii) Explain following milling operations:	(9)
		(1) Form milling	(2)
		(2) Gang milling.	(2)
		Or	
	(b)	(i) Summarize the different operations performed using driller	and
		shaper machine.	(8)
		(ii) Enlist the assumptions made in gear cutting process. Also detai impact on manufacturing of such assumptions made.	(5)
14.	(a)	Discuss in detail any two types of surface grinding process with sketches.	neat
		Or	
	(b)	Classify the types of broaching machine and spell in detail about process.	each
15.	(a)	Describe in brief the basic components of a tape operated NC mad tool.	hine
		Or	
	(b)	Narrate the design considerations of CNC machines.	
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			PAPT C /1 × 15 = 15 m = 1 ×
			PART C — $(1 \times 15 = 15 \text{ marks})$
16.	(a)	(i)	Spell in detail the procedure for taper turning process of cylindrical rod. (12)
		(ii)	State the general applications of Abrasive Jet Grinding process. (3)
			Or
	(b)	(i)	Compare the gear hobbing process over any other (One) type of gear generation processes. (10)
		(ii)	State the effect of surface grinding on deciding the surface roughness of a component. (5)
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