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Qu	estion Paper Code :	41389
ME 6	ch. DEGREE EXAMINATION, Al Third/Fourth Semester Mechatronics Engineering 5352 – MANUFACTURING TECH Aeronautical Engineering/Autom (Regulations 2013)	HNOLOGY
Time : Three Hours		Maximum: 100 Marks
	Answer ALL questions	
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	PART – A	(10×2=20 Marks)
1. Name any four all	lowances in the pattern making.	
2. List the advantag	es of Die casting.	
3. What is the purpo	ose of flux ?	simply sketches :
4. Show the applicat	ion of carburizing flame.	
5. Mention any four	operations that can be performed us	ing the milling machine.
6. What is film blow	ing and write its application?	
7. Write the classific	ation of CIVC machine.	
8. Define ultrasonic		
9. Compare open die	forging and closed die forging.	
10. State the advanta	ge of spinning over other forming pro	ocesses.

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	PART – B	(5×13=65 Marks)
11. a) In context of sand	d casting describe the following	g:
ii) Enumerate the	edure to make sand mould with a desirable mould properties in OR)	
	orking principle of investment cas	iting and list advantages (7+2)
ii) Draw the sche	matic diagram for shell mouldi	ng process. (4)
12. a) i) Classify the va	rious types of welding process	with flow chart. (5)
sketch.	orking mechanism of resistance	e welding with simple (4+4)
	s welding defects in manufactu	uring and explain any
two.	A=10//1	(6)
sketch.	orking mechanism of Thermit	welding with the neat (7)
13. a) Outline the communication simple sketches :	on operations performed in the	
i) Lathe		(8)
ii) Shaper.		(5)
onidan er and im add	OR)	mage and was nother to a
b) Discuss the worki its merits and de	ng principle of the Abrasive jet : merits.	
14. a) i) Summarize the v	vorking principle of injection moule	ding with neat sketch. (8)
ii) Compare thermo	o set curing process and thermoph OR)	
b) Demonstrate the	following processes with neat s	sketches.
i) Blow moulding	Ţ.	(7)
ii) Metal extrusio	n process.	(6)

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15. a) With the help of neat sketch of	lescribe the following	process:
 i) Flat rolling process. 		(7)
ii) Forging process.		(6)
(OR)		
 Describe the principle steps inv sketch and list its application 	volved in powder metal s also.	lurgy process with simple
	PART – C	(1×15=15 Marks)
16. a) i) Categorize the characterist	ics of the forming and	shaping processes. (7)
ii) Interpret the methods of pr		
1) Parts with cavities		
2) Thin hollow shapes		
3) Curvature on thin sheet	S	
4) Reducing cross sections.		(4×2=8 Marks)
(OR)		
		trial purposes.
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