Reg. No.									
----------	--	--	--	--	--	--	--	--	--



III SEMESTER B.TECH (I & P ENGG.)

END SEMESTER MAKE UP EXAMINATIONS, DEC 2016/JAN 2017

SUBJECT: MANUFACTURING PROCESS ENGINEERING [MME 2111] REVISED CREDIT SYSTEM

(30/12/2016)

Time: 3 Hours MAX. MARKS: 50

Instructions to Candidates:

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

1A.	Sketch and explain any two electric resistance welding process.						
1B.	Explain dry sand and skin dry mold with two advantages and disadvantages.						
1C.	Explain the casting process with neat sketches which produces multiple castings in a single set up.						
2A.	During machining of stainless steel with ceramic cutting tool, the following observations are made						
	Cutting speed (m/min.)	650	100				
	Tool life (min.)	2	300				
2B.	Find the tool life for speed of 250m/min. Sketch and explain plaster mold casting. List its advantages and						
	disadvantages.	g	and the state of t	03			
2C.	Explain clay content test.						
2D.	With neat sketches explain notching and roll bending operation.						
3A.	Sketch submerged arc welding process.						
3B.	With a neat sketch explain cutting forces in orthogonal cutting.						
3C.	Sketch and explain the prototyping and list the adv	•	•	05			

MME 2111 Page 1 of 2

4A.	Sketch and explain the working principle of lathe.	04
4B.	Find the angle at which the compound rest should be set to turn a taper or the workpiece having a length of 400mm. The larger and smaller diameter of the work piece is 65mm and 40mm respectively.	
4C.	Explain principle of indexing. Divide the periphery of the job into 14 divisions using plate 2 having 21, 23, 27,29,31,33 holes.	04
5A.	Sketch the horizontal shaper and explain the major parts.	04
5B.	With a neat sketch explain the double housing planer.	03
5C.	Sketch and explain the surface grinding machine.	03

MME 2111 Page 2 of 2