## TE/V/ Production Process/MECH/ 7-12-15 MECH/ 7-12-15 QP Code: 5681

Duration 3Hrs

Max. Marks: 100

(2)	2) Assume suital 3) Concepts exp	l is compulsory and Answer 3 Questions remaining 5 Questions. ble data wherever necessary lanation with suitable case study justification sketches explanations are right to reserve full marks	* * *
	1 Answer	Any Four Questions	
	2. ( 3. V 4. E 5. I	Integration of process and Product development system Classification of various press tool machines with line sketches Write short note on Ultra Sonic Machining (USM) Explain Scrap strip Layout Define Jigs and Fixtures	20
(	1. E	Explain Transfer machine machines used in industry?	10
. (	23 1	Explain various sheet metals production process with neat ketches.  Explain the following with neat sketches i, Locators i) Clamping Devices (Any Two Each)	10
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	The second second	plain the general arrangement of Injection plastic molding process	10
	24 1. Ta	abulate classification of non-traditional manufacturing processes & Explain Electron Beam Machining (EBM) Explain Flexible Manufacturing System (FMS)	.10
	-	explain principle, construction, working, applications, advantageous and limitations of Abrasive Jet Machining (AJM)	10
	1	Draw an economical strip layout and find out percentage utilization of material of square product. Thickness of sheet metal 1 mm (Assume side of the product is 25mm)	10
		Any Two Questions	20
	2. A	explain principle, construction, working, applications, advantageous and limitations of Electro chemical Machining (ECM)  agile Manufacturing System principles, procedures, implementation in Production Process	
		Write short note on (i) Die and Punch of press tool design with neat sketches (ii) 3-2-1 Principle of Locators with neat sketches	