SE-III/ Manufacturing Ensg-I/08-12-14

QP Code :14638

(3 Hours)

[Total Marks

1	N.B.	(1) Question No. 1 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
1.	(a)	Differentiate Thermoplastics and Thermosetting polymers.	4
	180	List various operations can be performed on Drilling Machine.	4
	(c)		4
	(d)	# - T. B.	4
	(e)		4
2.	(a)	Draw Single Point Cutting Tool Geometry and explain significance of angles.	10
	(b)	Compare Capstan and Turret Lathe in Detail.	10
3.	(a)	What is sawing? Explain any two sawing machines with a neat sketch.	10
	(b)	How Machining Time is Calculated in Shaping Operation?	10
4.	(a)	Draw and explain Blow Molding and Compression Molding.	10
	(b)	(i) Explain Up Milling and Down Milling with neat sketch.	10
		(ii) List indexing methods and explain any one method in brief.	
5.	(a)	Explain geometry of twist drill with significance of all elements and angles.	10
		Explain cutting speed, feed and depth of cut in Turning Operation. How machining	10
		time is calculated in Turning Operation?	
6.	Wı	rite short notes on any four from the following :-	
		(a) Injection Molding.	5
		(b) Quick Return Mechanism.	5
		(c) Cutting Tool Materials.	5
		(d) Classification of Machine Tools.	5
		(e) Transfer Molding.	5

GN-Con :10231-14