Seat No.:	Enrolment No.

Subject code: 162504

GUJARAT TECHNOLOGICAL UNIVERSITY

B. E. - SEMESTER - VI • EXAMINATION - WINTER 2012

Date: 07/01/2013

Subject Na		Allied Manufacturing Processes	701/2010
Time: 02.3	30 pm	- 05.00 pm Total M	Iarks: 70
Instruction	ns:		
2. N	Iake su	any five questions. itable assumptions wherever necessary. to the right indicate full marks.	
Q.1	(a)	Distinguish between 'Saddle type turret lathe' and 'Rantype turret lathe'.	n 07
	(b)	Explain the method of cutting gears by milling.	07
Q.2	(a)	Discuss the various threads rolling machines.	07
	(b)	What is the principle of EDM? Explain the function of the dielectric fluid used in EDM.	e 07
	(L)	OR	- 07
	(b)	Explain the method of AJM with the help of schematidiagram.	c 07
Q.3	(a)	Sketch and explain extrusion process for plastic.	07
	(b)	Distinguish between 'Chrome plating' and 'Dull plating process.	
0.0	()	OR	0=
Q.3	(a) (b)	Sketch and explain 'Blow molding processes' for plastic. Discuss Zink Platting process with advantages an limitation.	07 d 07
Q.4	(a)	Discuss various gear finishing operations.	07
ζ	(b)	Differentiate between 'Transverse thread grinding' an 'Plunge cut grinding'. OR	
Q.4	(a)	With the help of a neat diagram, discuss the design feature	es 07
ζ	(u)	of a hob.	75 07
	(b)	Discuss various types of self opening die heads.	07
Q.5	(a)	Describe a Swiss-type automatic and tell how it difference from other single spindle automatics?	rs 07
	(b)	Explain the principle of USM. What is the different between USM and conventional grinding? OR	nt 07
Q.5	(a)	With the help of neat diagram, explain the bar feedin mechanism for automatics.	g 07
	(b)	Explain the method of WJM with the help of a schematidiagram.	c 07
