GUJARAT TECHNOLOGICAL UNIVERSITY
BE - SEMESTER– VI (New) EXAMINATION – WINTER 2019

Subject Code: 2162507   Date: 11/12/2019

Subject Name: Allied Manufacturing Technique

Time: 02:30 PM TO 05:00 PM   Total Marks: 70

Instructions:
1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

			MARKS
Q.1	(a)	Distinguish between Turret lathe a and Engine lathe.	03
	(b)	Classify the automatic lathe machines.	04
	(c)	Explain the bar stock feed mechanism for automats with neat sketch.	07
Q.2	(a)	Summarize a short note about thread standards.	03
	(b)	Describe the terminology of threads with diagram.	04
	(c)	List different Thread manufacturing methods and discuss any two of them in detail.	07
		OR	
	(c)	Discuss ''Three wire method'' for checking pitch diameter of thread.	07
Q.3	(a)	Produce a brief note on applications of gears.	03
	(b)	Distinguish between forming and generating methods of gear manufacturing.	04
	(c)	Explain in detail a variety of gear finishing processes.	07
		OR	
Q.3	(a)	Produce a brief note on testing of gears.	03
	(b)	Describe gear finishing processes.	04
	(c)	Discuss any two methods of gear manufacturing in detail.	07
Q.4	(a)	State the applications of Abrasive Jet Machining.	03
	(b)	Discuss the working principle of LBM.	04
	(c)	Illustrate Water Jet Machining process in detail.	07
		OR	
Q.4	(a)	Produce a brief note on unconventional manufacturing processes.	03
	(b)	Discuss the working principle of Wire-cut EDM.	04
	(c)	Describe the Plasma Arc Machining (PAM) process with neat sketch.	07
Q.5	(a)	Write few words about ECG.	03
	(b)	Discuss the working principle of USM.	04
	(c)	Illustrate Electro Chemical Machining process in detail.	07
		OR	
Q.5	(a)	List applications of Plasma Arc Welding.	03
	(b)	Restate the working principle of LBW.	04
	(c)	Illustrate EDM process in detail.	07

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