GUJARAT TECHNOLOGICAL UNIVERSITY

BE- SEMESTER-IV (NEW) EXAMINATION - WINTER 2020

Subject Code:3141908 Subject November of Appril 2020 Subject Nov			2/2021
Time	Subject Name:Manufacturing Processes Sime:02:30 PM TO 04:30 PM Total Monstructions:		
	1. 2. 1	Attempt any FOUR questions out of EIGHT questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a)	What is Boring Process? Compare Boring and Reaming process.	03
	(b)		04
	(c)	Explain Different Types of Broaching Machines with neat sketch.	07
Q.2	(a)	With the help of figure explain "Taper turning by swiveling the compound rest method	03
	(b)	Give the comparison between a turret lathe and capstan lathe.	04
	(c)	Explain primary and auxiliary motions with reference to machine tool.	07
Q.3	(a)	Draw a neat sketch of single point cutting tool and show various angles on sketch	03
	(b)	Differentiate between multi spindle drilling machine and Gang drilling machine.	04
	(c)	Explain about crank and slotted link quick return mechanism in shaper machine.	07
Q.4	(a)	What is dressing of grinding wheel? Which operation is required to change shape of grinding wheel?	03
	(b)		04
	(c)	What is reamer? Explain different types of reamer.	07
Q.5	(a)	Give difference between Shaper and Planner.	03
	(b)	Explain about dressing and truing of grinding wheel.	04
	(c)	Explain Drilling and its allied operation in details with application.	07
Q.6	(a)	Enlist the operations performed on Lathe machine.	03
	(b)	Write a short note on: "Band Sawing Machine"	04
	(c)	With the help of figure explain 'Hydraulic' shaper mechanism.	07
Q.7	(a)	Differentiate between up milling Process and down milling Process.	03
	(b)	What is indexing? Describe direct indexing, with example.	04
	(c)	With the help of a neat sketch explain the column and knee type milling machine and name its main parts.	07
Q.8	(a)	State the working principle of milling machine with Neat sketch.	03
	(b)		04
	(c)	Explain any one Alignment test of milling machine with neat sketch.	07
