		Reg. No. :								
Question Paper Code: 54703										
B.E. / B.Tech. DEGREE EXAMINATION, DEC 2020										
Fourth Semester										
Mechanical Engineering										
15UME403 – MANUFACTURING TECHNOLOGY – II										
(Regulation 2015)										
Duration: 1.15 hrs Maximum: 30 M										
PART A - $(6 \times 1 = 6 \text{ Marks})$										
(Answer any six of the following questions)										
1.	A taper tap has			CO1- R						
	(a) Its end tapered for about three or four threads									
	(b) Its end tapered for about eight or ten threads									
	(c) Full threads for the whole of its length									
	(d) None of the above									
2.	In metal cutting operation, maximum heat (i.e. 80-85%) is generated in CO1- R									
	(a) The shear zone		(b) The chip-tool interface zone							
(c) The tool-work interface zone (d) None of the above										
3.	. The binding material used in cemented carbide tools is CO2									
(a) 250°C		(b) 350°C	(c) 500°C	(d) 900°C						
4.	Work piece is hold	in		CO2- R						
	(a) Chuck	(b) Tail stock	(c) Carriage	(d) Head stock						
5. A drill mainly used in drilling brass, copper or softer materials, is CO3-										
	(a) Flat drill	ed drill								
	(c) Parallel shank tw	vist drill	(d) Tapered shar	nk twist drill						
6. The cutting tool in a milling machine is mounted on				CO3- R						
	(a) Spindle	(c) Column								

7.	The process of remo direction of travel of		CO4- R								
	(a) Up milling (b) Down milling (c) Face milling (d) End milling					5					
8.	In Super finishing op	peration				CO4- R					
	(a) The work rotates, the abrasive block reciprocates										
	(b) The abrasive block rotates, the work reciprocates										
	(c) Both abrasive block and work rotates										
	(d) Both abrasive block and work reciprocates										
9.	Part-programming mistakes can be avoided in CO5- R										
	(a) NC (Numerical C	. and b.									
	(b) CNC (Computer Numerical Control) machine tool (d) None of the above										
10.	Gear finishing operation is called					CO5- R					
	(a) Shaping (b) Milling (c) Hobbing (d)					) Burnishing					
	PART - B (3 x 8 = 24 Marks)										
(Answer any three of the following questions)											
11.	Describe in detail a process.	CO1- U	(8)								
12.	Explain With a neat sketch, explain the components of a lathe.				CO2- U	(8)					
13.	With a schematic illustration, explain the working principle of a vertical spindle milling machine in detail					(8)					
14	Explain with a neat sketch the following grinding operations in detail.				CO4- U	(8)					
15	Explain The Construction and working principle of CNC.				CO5-U	(8)					