

Roll No. Total	ıl No	. of	Pages	: 02
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Total No. of Questions: 08

M.Tech.(ME) (Sem.-3) COMPUTER AIDED MANUFACTURING

Subject Code: MME-519 M.Code: 38216

Time: 3 Hrs. Max. Marks: 100

INSTRUCTION TO CANDIDATES:

- Attempt any FIVE questions out of EIGHT questions.
- 2. Each question carries TWENTY marks.
- Ql. Define FMS, Types of FMS. Explain FMS planning and control issue with their benefits and applications of FMS. [20]
- Q2. Write advantages & disadvantages of CNC machines. Explain various stages involved with NC manufacturing. How do they differ from conventional manufacturing stages? [20]
- Q3. As per figure.1, The dimensions of a finished component to be made from a bar of \$\phi80\$ mm \times 135\$ mm. Write the manual part programme to machine the component using \$G90\$ canned cycle.

Operation No.	Operation	Tool No.	Cutting Speed (m/min)	Feed Rate (mm/rev)	Depth of Cut (mm)
10	Facing	01	160	0.15	-
20	Rough turning	03	200	0.20	4 (max.)
30	Finish turning	03	200	0.15	1.5(max.)

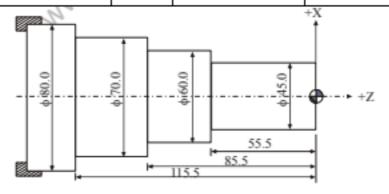


Fig.1

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Q4.	(a) Explain the product cycle in CAD/CAM environment with suitable example.	[8]
	(b) Explain design, planning, and control activities of manufacturing system.	[12]
Q5.	Explain in detail about the concept of MPP, CAPP and artificial intelligence.	[20]
Q6.	Explain FMS components, layout and deadlock in FMS. Also explain the flex Manufacturing.	xibility in [20]
Q7.	Define cellular manufacturing. Explain production flow analysis.	[20]
08	Define GT it's applications and grouping parts and machines techniques	[20]

NOTE: Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

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