S	eat N	No.: Enrolment No		
	U			
T	'ime	1	larks: 70	
11	nstr	<ol> <li>Attempt all questions.</li> <li>Make suitable assumptions wherever necessary.</li> <li>Figures to the right indicate full marks.</li> </ol>		
Q.1	(a)	Discuss parameters in detail and neat sketches which are responsible for reducing of eliminating the activities of operator in CNC technology. What are the future trends in manufacturing?		07
	(b)	<u> </u>		07
Q.2	(a)	õCNC Machines are encouraging unemploymentö. Comment on the sta reference to socio-technical environment.	tement with	07
	(b)	Discuss the role of CAM in precision sheet metal industries along with and limitations.	applications	07
	(b)	OR  õCNC Machining centre is considered to be a highly productive machined justification	ö. Give your	07
Q.3	(a)	Explain do loops, canned cycles, parametric sub routines and Macros u programming with suitable example.	sed in CNC	07
	(b)			07
Q.3	(a)	What is CIM? Discuss CIM Hardware and Software. Discuss the evolu-	tion of CIM	07
	(b)	with neat sketch and suitable examples.  Write short note on õExpert systems and AI based scheduling in CIM envir	ronment.ö	07
Q.4	(a)	Distinguish between Flexible Mfg cell and Flexible mfg system. Elab benefits of using FMS in industries. Draw a typical layout of FMS used in	-	07
	(b)	Explain with neat sketches the various types of layouts used in FMS desi applications.		07
Q.4	(a)	OR  Discuss the various tool supply concepts used in the FMS context. While the specific advantages and applications, mention the most widely practic in the industry.		07
	(b)	•	rial handling	07
Q.5	(a)	Write short note on oCoordinate Measuring Machineo		07

OR

List the different technologies available in automatic identification system in factory 07

(a) Write short note on õConcept of Group Technology and its benefitsö

data collection system and explain any one in detail.

(b) Write short note on õASRSö

Q.5

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