Hall Ticket	No Question	n Paper Code: BCC208
	INSTITUTE OF AERONAUTICAL ENGINEE (Autonomous)	RING
FILON FOR LIBERT	M.Tech II Semester End Examinations (Regular) - July, 201 Regulation: IARE–R16	7
	COMPUTER AIDED PROCESS PLANNING (CAD/CAM)	
Time: 3 Hour	s	Max Marks: 70
	Answer ONE Question from each Unit	

Answer ONE Question from each Unit All Questions Carry Equal Marks All parts of the question must be answered in one place only

$\mathbf{UNIT}-\mathbf{I}$

1.	(a) Explain the requirement for process planning system.	[7M]
	(b) Give out the merits and demerits of CAPP system.	[7M]
2.	(a) Explain the methods of automated process planning system.	[7M]
	(b) Discuss the benefits of generative CAPP system.	[7M]

$\mathbf{UNIT}-\mathbf{II}$

3.	(a)	Explain the quantitative methods for optimal selection of a manufacturing sequence with ples.	exam- [7M]
	(b)	Explain the structure of group technology and its implementation procedure.	[7M]
4.	(a) (b)	Discuss the advantages and applications of group technology. Explain the selection of manufacturing sequence.	[7M] [7M]
		$\mathbf{UNIT} - \mathbf{III}$	

5.	(a) Explain the reasons for optimal selection of machining parameters.	[7M]
	(b) Explain different types of approaches with a case study.	[7M]
6.	(a) Explain solving of optimization models of machining parameters.	[7M]
	(b) Differentiate between mathematical and conventional approach.	[7M]

$\mathbf{UNIT}-\mathbf{IV}$

7.	(a) Discuss the advantages and disadvantages of manufacturing tolerance.	[7M]
	(b) Distinguish between sequential and integrated approach with an examples.	[7M]
8.	(a) Explain briefly the advantages of sequential and integrated approach.	[7M]
	(b) Discuss the applications of integrated approach over sequential approach.	[7M]

$\mathbf{UNIT}-\mathbf{V}$

9.	. (a) Explain the concept of NC tool path generation.	[7M]
	(b) Explain the graphical implementation of machining process.	[7M]
10.	(a) Determine the optimal index position for executing fixed sequence in NC tool particular to the optimal index position for executing fixed sequence in NC tool particular to the optimal index position for executing fixed sequence in NC tool particular to the optimal index position for executing fixed sequence in NC tool particular to the optimal index position for executing fixed sequence in NC tool particular to the optimal index position for executing fixed sequence in NC tool particular to the optimal index position for executing fixed sequence in NC tool particular to the optimal index position for executing fixed sequence in NC tool particular to the optimal index position for executing fixed sequence in NC tool particular to the optimal index position for executing fixed sequence in NC tool particular to the optimal index position for executing fixed sequence in NC tool particular to the optimal index position for executing fixed sequence in NC tool particular to the optimal index position for executing fixed sequence in NC tool particular to the optimal index position for executing fixed sequence in NC tool particular to the optimal index position for executing fixed sequence in NC tool particular to the optimal index position for executing fixed sequence in NC tool particular to the optimal index position for executing fixed sequence in NC tool particular to the optimal index position for executing fixed sequence in NC tool particular to the optimal index position for executing fixed sequence in NC tool particular to the optimal index position for executing fixed sequence in NC tool particular to the optimal index position for executing fixed sequence in NC tool particular to the optimal index position for executing fixed sequence in NC tool particular to the optimal to the optima	ath generation. $[7M]$
	(b) Explain the criteria for selection of CAPP in MIPLAN system.	[7M]

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