Hall Ticket No	Question Paper Code: BCC208
	NGINEERING
(Autonomous) M.Tech II Semester End Examinations (Supplementations)	arv) - January, 2018
Regulation: IARE–R16	<i>(</i>),
$\begin{array}{c} \text{COMPUTER AIDED PROCESS PI} \\ \text{(CAD/CAM)} \end{array}$	LANNING

Time: 3 Hours

Max Marks: 70

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 role of process planning with an example.	[7M]
	(b) Discuss the advantages of conventional process planning over CAPP.	[7M]
2.	(a) Explain the working of generative CAPP system with a neat sketch.	[7M]
	(b) Discuss the structure and features of automated resource planning.	[7M]

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

3.	(a) Discuss the significance and structure of group technology with neat sketch.	[7M]
	(b) List and explain the applications of group technology in detail.	[7M]
4.	(a) "How reduction of total set up cost for particular sequence effects of manufacture set Explain with case study.	equence", $[7M]$
	(b) Explain selection of manufacturing sequence in making an automobile vehicle with a nea	at sketch. [7M]

$\mathbf{UNIT}-\mathbf{III}$

5.	(a) Explain solving of optimization models of machining process in detail.	[7M]
	(b) Describe how production i-rate, surface quality effect on machining parameters.	[7M]
6.	(a) Explain reasons for optimal selection of machining parameters with a case study.	[7M]
	(b) Discuss the advantages of mathematical approach over conventional approach.	[7M]

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

7.	(a) Distinguish between design tolerances and manufacturing tolerance with an example.	[7M]
	(b) Explain the integration of design and manufacturing tolerances. Mention the advanta integrated approach over sequential approach.	ages of [7M]
8.	(a) Explain the determination of manufacturing tolerance with an example.	[7M]
	(b) Give out the advantages and disadvantages of design tolerance.	[7M]

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

9.	(a)	Explain briefly the determination of optimal index positions for executing fixed sequence.	[7M]
	(b)	Explain criteria for selection of a CAPP in computer integrated planning system.	[7M]
10.	(a)	Explain the functions and benefits of Computer integrated planning systems.	[7M]
	(b)	Discuss the MIPLAN system and capacity planning system.	[7M]

 $-\circ\circ\bigcirc\circ\circ-$