250

200

100

ins!

1

GUJARAT TECHNOLOGICAL UNIVERSITY

ME – SEMESTER –II-(New)-EXAMINATION – SUMMER-2019												
Subject Code: 3720814 Date: 30/0							0/05/2019	9				
Subj	ect N	ame: Com	puter A	ided Pi	roductio	n Mana	gement					
Time	: 02	:30 PM T(0 05:00	PM					Total N	Aarks: 70	D	
Instr	uctio	ns:										
	1. Attempt all questions.											
	2.	Make sui	Make suitable assumptions wherever necessary.									
	3.	Figures to	Figures to the right indicate full marks.									
Q.1	(a) (b)	Discuss I Explain t					•		•		07 - 07	
Q.2	(a) (b)	5 1 1 5 1 5						07 07				
	(b)	Discuss Techniqu	•	orithm f	for Com	puterized	Relativ	ve Alloo	ation of	f Facility	07	
Q.3	(a)	Explain N	MRP-1 a	nd MRP	-II						07	
								07				
		Week	1	2	3	4	5	6	7	8		

The BOM of the product is given below:

150

100

200

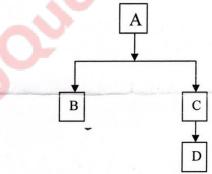
TOL

Parts	Order	No.of units	Lead Time	Stock in	
Required	Quantity		(Weeks)	hand	
A	300	1	2	100	-
В	250	2	1	50	
С	200	1	1	150	
D	350	1	2	100	

100

150

The product assembly is shown below:



Compute the MRP for product A as well as subassemblies E,C.

OR

Explain the process and steps involved in shop floor scheduling. Q.3 07 **(a)** Write an algorithm for Johnson's method of sequencing. 07 (b)

Q.4	(a)	Discuss the different types of Computer aided process planning techniques.	07
	(b)	Explain the hierarchical system of shop floor control.	07
		OR	
Q.4	(a)	What are the different types of shop floor data collection systems	07
	(b)	How does composite part in a product help Group Technology?	07
Q.5	(a)	Explain the Rank ordering Clustering Technique with an example.	07
	(b)	What are the major simulation activities on the shop floor?	07
		OR	
Q.5	(a)	Discuss FMS and Lean manufacturing	07
	(b)	What are the commercial packages available in the market? Discuss	07

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