Q.1_(a)	Define Real Time System? Discuss typical real time applications	cations.	[8]
_(b)	Explain the following:	£ 28	[2×4=8]
17 - 12	(i) Release time		新
* §	(ii) Period	A11	
e 18	(iii) Execution time	9 B	
e [©] e	(iv) Deadline	#0	
	<u>OR</u>	8 1	**
Q.1 (a)	Draw and explain block diagram of RTS.		[8]
(b)	What are timing constraints? Explain various timing const	raints in detai	[8]
[8 E 8165]	Page 1 of 3	\ .	[5000]
38 W			

IINIT-II

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Q.2	(a)-	Explain the reference model of RTS. Differentiate between	n processors and
		resources.	[8]
	æs	Explain and compare Periodic and Aperiodic task models.	[8]
		<u>or</u>	*
Q.2	(a)	What is real time scheduling? What are the classification	ns of real time
		scheduling? Explain.	[8]
	(b)	Explain and compare the following:	[4×2=8]
		(i) Dynamic versus static system	類 類
		(ii) Offline versus online scheduling system	*
		<u>UNIT-III</u>	9
Q.3	(a)	Explain clock driven scheduling with example. Discuss the disadvantages of clock driven scheduling. http://www.rtuonlin	¥10/4505
	(b)	Explain the following:	[4×2=8]
÷		(i) General structure of cyclic scheduling	32
		(ii) Cyclic executives	
		<u>OR</u>	
Q.	.3 (a)	Explain the notations and various assumptions for periodic of	lriven scheduling.
		Also explain various fixed priority scheduling algorithm.	[8]
95	(b)	b) What is meant be schedulability test? Explain the In	exact and exact
		schedulability tests for RM and DM.	(8)

[8]

UNIT-IV

		¥ 10
Q.4	(a)	What is aperiodic task scheduling? Explain assumption and approaches for
		aperiodic task scheduling.
*	(b)	Explain and compare server based and non-server based fixed priority scheduling
×		algorithms. [8
04		<u>OR</u>
Q.4	(a)	Explain the scheduling of flexible computation in detail. [8]
	(b)	Explain the following: [4×2=8]
		(i) Imprecise computation model
		(ii) Firm deadline model
RE.	100	<u>UNIT-V</u>
Q.5	Exp	plain the following: [4×4=16]
***	(a)	Resource contention
	(b)	Resource Access Control .
	(c)	Priority inversion problem
	(d)	Concurrent access of data objects
433		. <u>OR</u>
Q.5	(a)	Explain basic priority-Inheritance and priority-Ceiling protocols. [8]
#	(b)	Explain stack based priority ceiling protocol for multiple unit resources. [8]