

Roll No.

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Dec. 2021 B.Tech. (CSE/IT) VII SEMESTER Advanced Operating System (PEC-CS-S-701-I//OEC-IT-702-I)

Time: 90 Minutes]

[Max. Marks: 25

Instructions:

- 1. It is compulsory to answer all the questions (1 mark each) of Part-A in short.
- 2. Answer any three questions from Part-B in detail.
- 3. Different sub-parts of a question are to be attempted adjacent to each other.

PART - A

- 1. (a) What do you mean by replication transparency in distributed system? (1)
 - (b) Name one deadlock prevention algorithm in distributed system. (1)
 - (c) Which type of scheduling is used in multiprocessor system where a process is scheduled to be on same processor where it last executed? (1)
 - processor where it last executed? (1)
 (d) What is residual dependency? (1)
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(e)	Differentiate static and dynamic scheduling	gin				
(0)	Real time OS.	(1)				
(f)	What is the purpose of actuators in real t					
	systems?	(1)				
(g)	Define Background processes in mobile opera	ting				
	system.	(1)				
(h)	Which type of memories are used in mo	bile				
	system?	(1)				
(i)	Explain the concept of multiprogramming.	(1)				
(j)	What is resident monitor?	(1)				
	PART - B					
What are the functions of an operating system both from						
the	user's and system's viewpoint.	(5)				
(a) What are the design issues in distributed operating						
	system? Explain them.	(3)				
(b)	What are different structures of multiproces	ssor				
	operating system?	(2)				
Differentiate between the following: (5)						
(i)	Distributed OS & Network OS.					
(ii)	UMA & NUMA.					

5.	(a)	Explain	the	architecture	of	Android	operating
		system.					(3)

(b)	Explain Priority Ceiling Protocol.	(2)

3.