St. Thomas' College of Engineering & Technology B. Tech. 7th Semester, 1st Internal Examination, Jan 2021 Distributed Operating System (CS704A)

Full Marks: 25 Time: 50 Min.

Group-A

Choose the correct option				1×5
1.i) The network layer is mainly	responsi	ble for		
a) recovering from transmission	errors an	d for flow control		
b) hide all the details of the con	nmunicati	on network from the l	ayers above	
c) routing and congestion contro	ol			
d) establishing and maintaining	a connect	tion between two proc	eesses	
ii) Which protocol is used to co	ntrol acce	ss to the bus		
a) the token ring protocol	b) tl	b) the CSMA/CD protocol		
c) the slotted ring protocol		d) none of these		
iii) RPC is an abbreviation of				
a) Remote Process Call		b) Random Procedure Call		
c) Remote Procedure Call		Random Process Call		
iv) Chandy-Lamport's algorithm	n records			
a) local state b) transit state		c) global state	d) none of these	
v) System throughput is equals	to			
a) $(sd+1/E)^{-1}$ b) $(sd+E)^{-1}$)-1	c) (sd-E) ⁻²	d) $(E+1/sd)^{-2}$	
where sd = synchronization del	ay time &	E = avg. critical secti	on execution time	
		Group-B		
2. Briefly describe the three broand Renesse.	oad catego	ories classified in dist	ributed systems by Tar	nenbaum 5
3. Explain the limitation of Lamport's Clock using suitable space-time diagram.				
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		Group-C		
4. Describe the designing issues in Distributed Operating system.				10