

Annasaheb Dange College of Engineering and Technology, Ashta

(An Autonomous Institute affiliated to Shivaji University, Kolhapur)

Department of Computer Science and Engineering

(NAAC A++ Grade Accredited Institute, ISO 9001: 2015 Certified Institute)

Question Bank

Course Title and Code: Distributed and Cloud Computing, 1CSPC405

UNIT 2: Processes, Communication and Synchronization

Q. No	Question	Marks	со	BL
a)	Discuss on how RPC differ from OSI model. Compare between Synchronous and Asynchronous RPC.	09	[405_2]	K2
	Discuss on stepwise working of RPC to calculate square root of a number.	09	[405_2]	К3
b)	Apply Berkeley algorithm for below network and calculate clock time for synchronization. Explain step wise process. Time daemon Network 2:50 3:25 2:50 3:25	09	[405_2]	К3
b)	3 coordinator 4 Refer above diagram of process where coordinator and	09	[405_2]	К3
	process 5 get failed at a time after which process 2 get			

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Q. No	Question	Marks	со	BL
	failed. Apply bully algorithm for following scenarios and explain the steps of electing coordinator, i. Process 6 need resource and initiate election ii. Process 7 recovers from failure			
	With help of suitable diagram discuss on steps involved in Remote Procedure Call.	09	[405_2]	K2
	Apply Berkeley algorithm for below network and calculate clock time for synchronization. Explain step wise process. Time daemon 3:00 Network 2:50 3:25 3:25	09	[405_2]	К3
	Refer above diagram of process where coordinator and process 5 get failed at a time. Apply bully algorithm for following scenarios and explain the steps of electing coordinator, iii. Process 2 need resource and initiate election iv. Process 5 recovers from failure	09	[405_2]	К3
	iv. Process 5 recovers from failure With help of suitable example, explain different steps involved in RPC.	09	[405_2]	К2

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Q. No	Question	Marks	со	BL
	Apply Berkeley algorithm for below network and calculate clock time for synchronization. Explain step wise process. Time daemon 3:05 Network 2:50 3:25 2:50 3:25	09	[405_2]	КЗ
	Refer above diagram of process where coordinator and process 5 get failed at a time after which process 2 get failed. Apply bully algorithm for following scenarios and explain the steps of electing coordinator, v. Process 1 need resource and initiate election vi. Process 5 recovers from failure	09	[405_2]	К3

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