K.J. Somaiya Institute of Management Studies and Research
Vidyanagar, Vidyavihar, Mumbai 400 077

Program: MCA *(Batch2016-19), Sem-III*
Subject : Distributed Computing
Endterm Exam

Max Time : 3 hours
Max Marks: 50

Date : 8th Nov 2017

N.B. : (1) Question No. 1 is compulsory
      (2) Answer any **four** questions from **Q2 to Q7**
      (3) **All** questions carry **equal** marks

(1)	Write any 2 short notes on the following	10 M
	(i) Real time systems	
	(ii) File Replication	
	(iii) Release consistency	
	(iv) Name space	
(2)	What is the difference between procedural call and remote procedural call? Explain RPC model with a diagram	10M
(3)	Explain process migration. Discuss relative advantages and disadvantages of preemptive and non-preemtive process migration	10 M
(4) a)	What is consistency? List different types of consistency Models and explain them in detail	5 M
b)	What is deadlock? What are the four necessary conditions for deadlock to occur? Give suitable examples to prove that if any one of the four conditions is absent, no deadlock is possible.	5 M
(5) a)	Explain the working of distributed File system with one example	5 M
b)	Explain Real time distributed system	5 M
(6)	What are election algorithms? Explain bully algorithm in detail with diagram	10 M
(7)	Describe how threads of a process are synchronized in Mach	10 M

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