END Semester Examination	
Max. Marks: 100	Duration: 3 hours
Class:TYMCA	Semester: V
Course Code: MCA504	Date: 25/12/2017
Subject: Distributed Computing and Cloud Computing	Time: 10 AM to 1 PM

Instructions:
  (1) All questions are compulsory.
  (2) Use of scientific calculator is allowed.
  (3) Assume any necessary data but justify the same.

Question No.		Max. Marks	CO
Q1 (a)	Explain different distributed computing model.	10	CO1
Q1 (b)	What are the different message buffering strategies in IPC?	10	CO1
	OR		
	What is IPC and its advantages? Explain different components of IPC message.	10	CO1
Q2 (a)	Explain different clock synchronization algorithms.	10	CO2
	OR		
	Explain ring election algorithm.	10	CO2
Q2 (b)	What is clock synchronization? Explain physical clock? What is clock skew?	10	CO2
Q3 (a)	Explain address space transport mechanism in process migration.	10	CO3
	OR		
	Explain DSM consistency models.	10	CO3
Q3 (b)	Explain different methods used for data location in DSM.	10	CO3
	OR		
	Explain different components and desirable features of DFS.	10	CO3
Q4 (a)	What are the key components of SOA and technology used in SOA?	10	CO4
Q4 (b)	Explain different types of clouds with example.	10	CO4
	OR		
	Differentiate between RPC centric view and Document Centric view. Explain Composing services.	10	CO4
Q5 (a)	Explain IaaS, PaaS, SaaS, MaaS and CaaS in detail. What are the benefits of cloud computing?	10	CO5
Q5 (b)	Explain Hadoop and Mapreduce technologies used to implement cloud.	10	CO5