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Roll No

MCA-505(A)

M.C.A. V Semester

Examination, November 2018

Distributed System

(Elective-III)

Time: Three Hours

Maximum Marks: 70

Note: i) Attempt any five questions.

- All questions carry equal marks.
- a) Discuss various methods for interprocess communication.
 Explain with the help of example.
 - b) What do you understand by a Stub and Skelton? How it helps in communication between various components in a heterogeneous system?
- 2. a) Explain the working of bully algorithm for election of a co-ordinator.
 - b) What is a distributed transaction? Discuss the protocols used to manage distributed transactions.
- 3. a) Explain the concepts of clock synchronization in distributed system.

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b) Explain the limitations of logical clock and also discuss the vector clock.

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	b)
5.	a) b)
6.	a)
	b)
7.	a)
	b)
8.	Wa) b) c)

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4. a) Write short notes on:

i) Kerberos

- ii) Client Server Communication
- b) Describe the distributed mutual algorithm that uses multicast and logical clocks.
- 5. a) Explain in detail about sun network file system.
 - b) Discuss the features of CORBA.
- 6. a) A file system allows links from one directly to another. In this way, a directory can "include" a subdirectory. In this context, what is the essential criterion that distinguishes a tree-structured directory system from a general graph-structured system?
 - b) The terms loosely-coupled system and tightly-coupled system are often used to describe distributed computer systems. What is the different between them.
- 7. a) How memory management is done in a Distributed System? Explain with the help of an example.
 - b) How we Invoke remote objects with the help of Java RMI? How messages are Passed between remote objects? 7
 - . Write short notes on:
 - a) . Data centric consistency model
 - b) Fault tolerance in distributed system
 - c) Distributed security architecture
 - l) Cryptography

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