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IT-601

B.E. VI Semester

Examination, June 2017

Distributed System

Time: Three Hours

Maximum Marks: 70

Note: i) Attempt any five questions out of eight.

ii) All questions carry equal marks.

State and explain the challenges of distributed system.

- What are the main differences between a network and distributed operating system.
- What are logical clocks? Why does a logical clock need to be implemented in Distributed systems? Explain with an example what are the impacts of absence of global clock and shared memory.
 - What do you mean by problem of mutual exclusion in Distributed system? Explain mutual exclusion theorem.
- 3. a) Explain the deadlock handling strategies in distributed system.
 - How do clock synchronization issues differ in centralized and distributed systems. www.rgpvonline.com
- Describe the method for implementation of RPC in distributed systems.
 - Explain the features of Andrew File system?

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- Give the architecture of sun network file system.
 - Explain the distributed concurrences control techniques.
- What are Wave and Traversal algorithm? Discuss the usage and application of wave algorithm.
 - Explain CORBA and its services.

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- Explain the file server interface and the directory server interface in a distributed file system design.
 - b) Explain the different kinds of transparencies in a distributed system in detail.
- 8. Write short notes on the following:-
 - Election algorithm
 - Assignment problem in parallel
 - Flat and nested transaction
 - Atomic commit protocols

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