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VII SEMESTER B.TECH (COMPUTER SCIENCE AND ENGINEERING) DEGREE END SEMESTER EXAMINATIONS, NOV/DEC 2018 SUBJECT: DISTRIBUTED AND CLOUD COMPUTING [CSE 4102] REVISED CREDIT SYSTEM DATE: 24-11-2018

TIME:03 HOURS MAX.MARKS : 50

Instructions to Candidates:

- Answer ALL FIVE FULL questions.
- Missing data, if any, may be suitably assumed.

1A.	What is the security model used in distributed system? Discuss the different security threats. Explain the methods adopted to achieve secured environment in Distributed system.	5M
1B.	What are the different techniques used to handle failure types that can occur in processes and networks in distributed system?	3M
1C.	What factors affect the responsiveness of an application that accesses shared data managed by a server? Describe remedies that are available.	2M
2A.	Explain and discuss the working and the role of each component in Remote Method Invocation with a neat diagram.	5M
2B.	Explain the role of participating objects in the architecture of distributed event notification.	3M
2C.	How discarding duplicate request messages and lost reply messages are handled in request reply protocol of client server communication?	2M
3A.	Explain with example any two Client Centric consistency models.	4M
3B.	Explain the challenges in synchronizing physical clocks in distributed systems. Use necessary diagram.	3M
3C.	Explain Reference broadcast synchronization (RBS) in Wireless Networks with necessary diagrams.	3M

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4A.	Explain any two cloud computing service models with examples.	4M
4B.	With the help of a neat diagram explain the steps involved in the Virtual Machine Provisioning process.	3M
4C.	Explain how data lock-in and standardization is a challenge in cloud computing. What are the standardization efforts to overcome this?	3M
5A.	Explain how file I/O operations are handled in HDFS? Explain with suitable diagram.	5M
5B.	Explain with a suitable example, how local and remote file systems accessible on an NFS client. What is hard mounting and soft mounting?	3M
5C.	What are the two types of Service Level Agreements from the perspective of application hosting?	2M

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