Question Paper

Exam Date & Time: 25-Apr-2018 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

SCHOOL OF INFORMATION SCIENCES (SOIS) FIRST SEMESTER MASTER OF ENGINEERING- ME (Big Data and Data Analytics)

DEGREE EXAMINATION-APRIL 2018 Wednesday, 25 April 2018

Time: 10:00am to 1:00pm

Large Scale Distributed Computing Systems [BDA 609]

Marks: 100 Duration: 180 mins.

Answer all the questions.

1)	Outline the security threats that is posed to a distributed system in the current cyber age and what are the security measures that are required to adopt counter the same.	(10)
2)	Explain the ACID properties of a distributed system.	(10)
3)	With a help of an example, explain Hybrid and De- Centralized Architecture.	(10)
4)	Explain the implementation of BigTable in Distributed Systems.	(10)
5)	How do you pass a file from Client to server? Explain with a code snippet.	(15)
6)	List the steps followed in deploying a VM inside Hyper-V environment?	(10)
7)	Can you satisfy all the properties of CAP theorem on a system? Explain any two with an example.	(10)
8)	Differentiate between Virtual Hard disk and Virtual Memory.	(5)
9)	Explain RPC with example.	(10)
10)	Which are different locking protocols in a distributed transaction environment? Explain Concurrency Control - Locking Protocols.	(10)

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