

Question Paper

Exam Date & Time: 22-Nov-2018 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

SCHOOL OF INFORMATION SCIENCES FIRST SEMESTER MASTER OF ENGINEERING - ME (BIG DATA AND DATA ANALYTICS)

Large Scale Distributed Computing Systems [BDA 609]

Marks: 100

Duration: 180 mins.

END SEMESTER DEGREE EXAMINATION NOVEMBER 2018

Answer all the questions.

- 1) With a help of an example, explain Hybrid and De-Centralized Architecture (10)
- 2) What is Virtualization? Explain with an example and outline differences between Primary storage and secondary storage facilities (10)
- 3) Explain the implementation of BigTable in Distributed Systems (10)
- 4) How do you pass a file from Client to a Server? Explain with a code snippet (15)
- 5) List the steps followed in deploying a VM inside Hyper-V environment? (10)
- 6) What is a Distributed System? Explain the ACID properties of a distributed system (10)
- 7) Can you satisfy all the properties of CAP theorem on a system? Explain any two with an example (10)
- 8) Explain Two and Three-Phase Commit protocols? Explain with example (10)
- 9) Differentiate between Virtual Hard disk and Virtual Memory. (5)
- 10) Explain MapReduce in detail (10)

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