



CBCS SCHEME

16/17MCA542

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Fifth Semester MCA Degree Examination, July/August 2021 Cloud Computing

Time: 3 hrs.

Max. Marks: 80

Note: Answer any FIVE full questions.

- 1 a. Explain the evolutionary trends of scalable computing with a neat diagram. (08 Marks)
b. Describe HPC and HTC systems. (04 Marks)
c. Define IOT and RFID with examples. (04 Marks)
- 2 a. Briefly explain cluster of cooperative computers with a diagram. (08 Marks)
b. Describe P2P networks and overlays networks with a diagram. (08 Marks)
- 3 a. List and discuss major cluster design issues and their features. (08 Marks)
b. Explain how cloud computing is cost effective compared to traditional IT computing. (08 Marks)
- 4 a. Explain various peer to peer network families. (08 Marks)
b. Briefly discuss on network threats and data integrity in distributed or cloud computing systems. (08 Marks)
- 5 a. Briefly explain VMM with diagram of abstraction levels. (08 Marks)
b. Define virtualization. Explain implementation levels of virtualization. (08 Marks)
- 6 a. Write notes on:
(i) Hypervisor
(ii) Xen architecture (08 Marks)
b. Describe physical clusters and virtual clusters with a neat diagram. (08 Marks)
- 7 a. Define:
(i) Public
(ii) Private
(iii) Hybrid clouds (06 Marks)
b. Illustrate AWS architecture with a neat diagram. (10 Marks)
- 8 a. Explain AWS, GAE and Ms. Azure as cloud platforms. (12 Marks)
b. Write short notes on physical and cyber security. (04 Marks)
- 9 a. Explain MapReduce technique and steps involved in MapReduce data flow. (08 Marks)
b. List out and explain traditional features in cluster, grid, parallel computing environments. (08 Marks)
- 10 a. Write short notes on emerging cloud software environments. (08 Marks)
b. Explain the architecture of the Google File Systems (GFS). (08 Marks)

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Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.