

CBGS SCHEME

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16MCA542

Fifth Semester MCA Degree Examination, Dec.2018/Jan.2019 Cloud Computing

Time: 3 hrs.

Max. Marks: 80

Note: Answer FIVE full questions, choosing ONE full question from each module.

Module-1

- 1 a. Explain the evolutionary trend of scalable computing. (06 Marks)
- b. Differentiate between high performance computing and High throughput computing. (04 Marks)
- c. Define RFID, GPS and IoT with examples. (06 Marks)

OR

- 2 a. Explain centralized computing, parallel, distributed and cloud computing. (12 Marks)
- b. What are clusters of cooperative computers? (04 Marks)

Module-2

- 3 a. Discuss major cluster design issues and their features. (08 Marks)
- b. Explain Peer-to-Peer network families with diagram. (08 Marks)

OR

- 4 a. What is cloud computing? Explain cloud architecture. (08 Marks)
- b. Explain performance metrics in distributed systems. (08 Marks)

Module-3

- 5 a. What is virtualization? Explain implementation levels of virtualization. (08 Marks)
- b. Define VMM with diagram of abstraction levels. (08 Marks)

OR

- 6 a. Explain OS level virtualization. (08 Marks)
- b. Differentiate between hypervisor and Xen architecture. (08 Marks)

Module-4

- 7 a. Define public, private and hybrid clouds. (06 Marks)
- b. Explain data-centre networking structure. (05 Marks)
- c. List out and explain cloud design objectives. (05 Marks)

OR

- 8 a. Explain AWS, GAE and Ms Azure as cloud platforms. (12 Marks)
- b. Define physical and cyber security. (04 Marks)

Module-5

- 9 a. List out and explain traditional features in cluster, grid, parallel computing environments. (08 Marks)
- b. Explain Mapreduce, Hadoop in cloud programming environment. (04 Marks)
- c. What are GFS in software environment? (04 Marks)

OR

- 10 a. Explain Amazon EBS as cloud programming. (08 Marks)
- b. Explain emerging cloud software environments. (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.

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