



CBCS SCHEME

16/17MCA542

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Fifth Semester MCA Degree Examination, June/July 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. With a neat diagram, illustrate the evolution of HPC and HTC systems. (08 Marks)
b. Explain the following, with neat diagram
i) Cluster Architecture ii) P2P system. (08 Marks)

OR

- 2 a. Explain in detail the various system models available for distributed and cloud computing. (08 Marks)
b. Write notes on : i) Internet of things (IoT) ii) Cyber physical systems. (08 Marks)

Module-2

- 3 a. Explain layered Architecture for Web Service and Grids. (08 Marks)
b. Discuss about the trends toward distributed operating systems. (08 Marks)

OR

- 4 a. Explain different Parallel and Distributed programming models and also give their features. (08 Marks)
b. Discuss the security issues distributed and cloud computing. (08 Marks)

Module-3

- 5 a. Define virtualization and also describe the various levels of virtualization. (08 Marks)
b. Write a neat diagram; explain live migration of VM from one host to another. (08 Marks)

OR

- 6 a. Illustrate the concept of virtual clusters and physical clusters with a neat diagram. (08 Marks)
b. Write a note on : i) Eucalyptus ii) Xen Architecture. (08 Marks)

Module-4

- 7 a. With a neat diagram, explain data center networking for the cloud to access the internet. (08 Marks)
b. What is cloud? Describe the cloud computing cost model. (08 Marks)

OR

- 8 a. Discuss the detail the layered architecture development. (08 Marks)
b. Give the cloud design objectives and architectural design challenges. (08 Marks)

Module-5

- 9 a. Discuss the short, traditional features common to Grids and clouds. (04 Marks)
b. Explain programming environment for Google App engine with a neat diagram. (06 Marks)
c. Explain Amazon S3 execution environment. (06 Marks)

OR

- 10 a. Give the important cloud platform capabilities. (04 Marks)
b. Discuss programming on Amazon AWS. (06 Marks)
c. Explain Cloud software environment of open stack in detail. (06 Marks)

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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