



Third Semester MCA Degree Examination, June/July 2024 Cloud Computing

Max. Marks: 100

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

Module-1

- 1 a. What is Cloud Computing? Briefly discuss on prominent eras of computing. (10 Marks)
- b. Illustrate the vision of cloud computing with neat diagram. (10 Marks)

OR

- 2 a. Explain cloud computing reference model with neat diagram. (10 Marks)
- b. Describe in detail the core technologies that played an important role in the virtualization of cloud. (10 Marks)

Module-2

- 3 a. Compare Parallel computing Vs distributed computing. (04 Marks)
- b. Illustrate the different layers that are involved in providing the services of a distributed system. (08 Marks)
- c. Briefly, explain Data-centered category of software architectural styles in Distributed computing. (08 Marks)

OR

- 4 a. What is RPC? Describe RPC reference model with neat diagram. (10 Marks)
- b. Write a note on : (10 Marks)
 - i) Virtual machine architecture
 - ii) Client/Server architecture

Module-3

- 5 a. Describe the characteristics of virtualization and its reference model with neat sketch. (10 Marks)
- b. Explain the machine reference model for execution of virtualization in detail. (10 Marks)

OR

- 6 a. Explain with neat diagram the Type – I and Type – II hypervisors. (10 Marks)
- b. Write a note on Microsoft Hyper – V. (10 Marks)

Module-4

- 7 a. Describe the basic components of an IaaS-based solution for cloud computing. (10 Marks)
- b. Briefly, explain the community clouds with neat diagram. (10 Marks)

OR

- 8 a. Describe the reference model of Platform-as-a-Shared (PaaS) with diagram. (10 Marks)
- b. Explain different challenges posed by cloud computing for industry and academia. (10 Marks)

Module-5

- 9 a. What is Aneka container? Which types of services are hosted inside the Aneka container? Explain in detail. (10 Marks)
- b. Describe in detail about the biology applications of cloud computing with respect to protein structure prediction in Jeeva portal. (10 Marks)

OR

- 10 a. Explain Google AppEngine platform architecture with neat diagram. (10 Marks)
- b. List and explain productivity applications of cloud computing. (10 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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