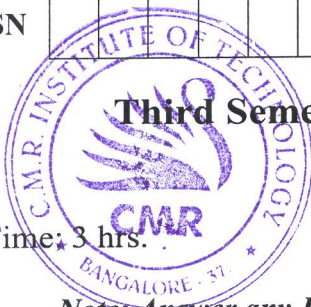


CBCS SCHEME

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20MCA342



Third Semester MCA Degree Examination, June/July 2023 Cloud Computing

Time: 3 hrs.

Max. Marks: 100

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

Module-1

- 1 a. Define cloud computing? Discuss its key characteristics. (06 Marks)
- b. Discuss the evolution of cloud computing. (06 Marks)
- c. Narrate the technologies that have played an important role in realizing cloud computing today. (08 Marks)

OR

- 2 a. Describe various cloud benefits. (06 Marks)
- b. Summarize the closer look of cloud. (06 Marks)
- c. Discuss distributed systems and service oriented computing. (08 Marks)

Module-2

- 3 a. Differentiate between Parallel computing and Distributed Computing. (06 Marks)
- b. Write a note on Peer-to-Peer architectural style. (06 Marks)
- c. Describe various technologies of distributed computing. (08 Marks)

OR

- 4 a. Discuss any 3 software architectural styles of Distributed Computing. (06 Marks)
- b. Write a note on Client –Server architectural style. (06 Marks)
- c. Elaborate on the layered view of a distributed system. (08 Marks)

Module-3

- 5 a. Discuss pros and cons of virtualization in the context of cloud computing. (06 Marks)
- b. Describe any 2 different hardware virtualization techniques. (06 Marks)
- c. With a neat diagram, explain VMWare cloud solution stack with respect to virtualization used. (08 Marks)

OR

- 6 a. Explain the characteristics and benefits of virtualized environment. (06 Marks)
- b. Differentiate between Type-I and Type-II hypervisors. (06 Marks)
- c. Explain how XEN is different from other virtualization platforms. Explain its elements for virtualization. (08 Marks)

Module-4

- 7 a. Discuss IaaS reference model and functionalities of its components. (06 Marks)
- b. Discuss the open challenges in Cloud Computing. (06 Marks)
- c. Explain Cloud Computing architecture in detail. (08 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.

OR

- 8 a. Discuss on the economics of cloud. (06 Marks)
b. Discuss PaaS reference model along with different classifications of PaaS offerings. (06 Marks)
c. Briefly explain different types of clouds. (08 Marks)

Module-5

- 9 a. Explain how PaaS solutions are offered by Aneka cloud. (06 Marks)
b. Discuss how healthcare applications are delivered through cloud through an example. (06 Marks)
c. Write notes on EC2 and S3 of AWS. (08 Marks)

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OR

- 10 a. Discuss components of open stack. (06 Marks)
b. Describe GAE architecture. (06 Marks)
c. Explain any 2 applications of cloud. (08 Marks)

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