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Third Semester MCA Degree Examination, Dec.2023/Jan.2024 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. Discuss the vision of cloud computing. (06 Marks)
- b. Give the various cloud computing definitions. (06 Marks)
- c. Explain cloud computing concept in terms of different requirements. (08 Marks)

OR

- 2 a. Explain cloud computing reference model with neat diagram. (08 Marks)
- b. Discuss the characteristics and benefits of cloud computing. (08 Marks)
- c. Discuss the challenges of cloud computing. (04 Marks)

Module-2

- 3 a. Describe the factors which influence parallel-processing. (06 Marks)
- b. Explain Hardware Architectures for parallel processing. (08 Marks)
- c. Discuss the approaches to parallel programming. (06 Marks)

OR

- 4 a. Discuss the levels of parallelism. (06 Marks)
- b. Describe the layered view of a distributed system. (06 Marks)
- c. Explain the system architectural styles with necessary diagrams. (08 Marks)

Module-3

- 5 a. Discuss the characteristics of virtualized environments. (10 Marks)
- b. Explain execution virtualization in detail. (10 Marks)

OR

- 6 a. Explain hardware virtualization techniques. (10 Marks)
- b. Discuss about other types of virtualization. (10 Marks)

Module-4

- 7 a. Explain cloud computing architecture with neat diagram. (10 Marks)
- b. Discuss about infrastructure as a service reference implementation. (10 Marks)

OR

- 8 a. Explain platform as a service reference model. (10 Marks)
- b. Discuss about community clouds in detail. (10 Marks)

Module-5

- 9 a. Explain the compute services of AWS. (10 Marks)
- b. Discuss the storage services of Azure. (10 Marks)

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- 10 a. How cloud computing used in scientific applications? Explain any two. (10 Marks)
- b. Explain the role of cloud computing in CRM and ERP. (10 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.