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20MCA342

Third Semester MCA Degree Examination, Feb./Mar. 2022 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. Explain with suitable diagram the Cloud Computing reference model. (10 Marks)
- b. Discuss in detail the major deployment models for Cloud Computing. (10 Marks)

OR

- 2 a. What is Cloud Computing? Explain its characteristics and benefits. (10 Marks)
- b. Discuss about the milestones which have led to Cloud Computing. (10 Marks)

Module-2

- 3 a. Explain with suitable diagram, Virtual Machine Architecture. (10 Marks)
- b. What are the most popular and important messages passing techniques? (10 Marks)

OR

- 4 a. Discuss in detail about Call and Return Architectures. (10 Marks)
- b. Explain with suitable diagram, the RPC reference model. (10 Marks)

Module-3

- 5 a. What are the functions enabled by managed execution? Explain. (10 Marks)
- b. Explain with neat diagram, the machine reference model. (10 Marks)

OR

- 6 a. Discuss in detail about the characteristics of Virtualized solutions. (10 Marks)
- b. Explain in detail the Popek and Goldberg theorems in Virtualization. (10 Marks)

Module-4

- 7 a. Explain with suitable diagram, the Cloud Computing Architecture. (10 Marks)
- b. What are the Open challenges in Cloud Computing? Explain. (10 Marks)

OR

- 8 a. Discuss Platform – as – a – Service reference model. (10 Marks)
- b. With suitable example, explain in detail the types of Clouds. (10 Marks)

Module-5

- 9 a. What are the different scientific applications in Cloud Computing? (10 Marks)
- b. Explain in detail about Dropbox and Icloud. (10 Marks)

OR

- 10 a. Explain in detail the Business and Consumer application of Cloud Computing. (10 Marks)
- b. Discuss about media 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.