

# CBCS SCHEME

20MCA342

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Third Semester MCA Degree Examination, Jan./Feb. 2023

## Cloud Computing

Max. Marks: 100

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

### Module-1

- 1 a. What are the uses of creating data centre? Explain practical examples of cloud computing. (10 Marks)
- b. With a neat diagram, explain cloud computing reference model. (10 Marks)

OR

- 2 a. Define cloud computing. Explain the characteristics and benefits of cloud computing. (10 Marks)
- b. Explain how the two technologies grid computing and Web 2.0 has contributed for cloud computing. (10 Marks)

### Module-2

- 3 a. Explain different hardware architectures for parallel processing. (10 Marks)
- b. Define component and connector. Explain data-centered architectural style. (10 Marks)

OR

- 4 a. Explain client-server architectural style. (10 Marks)
- b. What is a service? Explain the characteristics that identify service. (10 Marks)

### Module-3

- 5 a. Explain the advantages of visualization in detail. (10 Marks)
- b. What is Hypervisor? With a neat diagram, explain the types of hypervisor. (10 Marks)

OR

- 6 a. Explain different types of hardware virtualization. (10 Marks)
- b. With a neat diagram, explain Xen-Paravirtualization. (10 Marks)

### Module-4

- 7 a. With a neat diagram, explain Infrastructure as a service reference implementation. (10 Marks)
- b. What is the need for private cloud? Discuss the advantages of using private cloud. (10 Marks)

OR

- 8 a. Explain the sectors where community clouds are used. (10 Marks)
- b. Explain the challenges in cloud computing. (10 Marks)

### Module-5

- 9 a. What is open stack? Discuss the important components of open stack. (10 Marks)
- b. Explain briefly the storage services of Amazon Web services. (10 Marks)

OR

- 10 a. Explain any two scientific applications where cloud computing can be used. (10 Marks)
- b. Explain in detail business and consumers application 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.

