

## Seventh Semester B.E. Degree Examination, Feb./Mar. 2022 Cloud Computing and its Application

Time: 3 hrs.

Max. Marks: 80

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

### Module-1

- 1 a. Define Cloud Computing. Explain Cloud Computing reference model with respective diagrams. (08 Marks)  
b. What is Virtualization? Describe the main characteristics of service oriented computing. (08 Marks)

OR

- 2 a. Discuss machine reference model of executive virtualization with diagram. (08 Marks)  
b. Discuss the reference model of full virtualization with the diagram. (08 Marks)

### Module-2

- 3 a. Explain the different types of clouds in detail. (08 Marks)  
b. Explain the cloud computing architecture with the help of diagram. (08 Marks)

OR

- 4 a. Discuss the logical organization of an Aneka cloud. (08 Marks)  
b. Describe the resource provisioning capabilities of Aneka and also explain how storage architecture is implemented in Aneka. (08 Marks)

### Module-3

- 5 a. Explain domain decomposition techniques with a neat diagram. (08 Marks)  
b. Describe the major differences between Aneka threads and local threads. (08 Marks)

OR

- 6 a. Explain parameter sweep applications with an example. (08 Marks)  
b. What is a workflow? Describe the reference model of a workflow management system with diagram. (08 Marks)

### Module-4

- 7 a. List some of the important storage technologies supporting Data-Intensive computing and describe one of them. (08 Marks)  
b. Describe the architecture of the Google File system. (08 Marks)

OR

- 8 a. List some of the variations or extensions to MapReduce. Also explain the alternatives to MapReduce. (08 Marks)  
b. Describe the components of the scheduling and execution services that constitute the runtime infrastructure supporting MapReduce. (08 Marks)

### Module-5

- 9 a. What is AWS? What is the difference between Amazon simple DB and amazon RDS. (08 Marks)  
b. Describe the architecture of windows Azure. (08 Marks)

OR

- 10 a. What is SQL Azure? Illustrate the architecture of SQL Azure. (08 Marks)  
b. What is AppFabric and which services does it provide? (08 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.