



# CBCS SCHEME

15CS565

## Fifth Semester B.E. Degree Examination, Feb./Mar. 2022 Cloud Computing

Time: 3 hrs.

Max. Marks: 80

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

### Module-1

- 1 a. Describe Cloud Computing reference model. (08 Marks)
- b. Define cloud and list out technical benefits of cloud computing. List out challenges in cloud. (08 Marks)

OR

- 2 a. Define virtualization and explain the characteristics of virtualized environments. (08 Marks)
- b. List out the characteristics of cloud computing, write/show steps involved in building Aneka cloud. (08 Marks)

### Module-2

- 3 a. Demonstrate the cloud computing architecture, a layered view covering the entire stack of resources. (08 Marks)
- b. Explain in brief about IaaS, PaaS and SaaS in cloud computing with example. (08 Marks)

OR

- 4 a. Explain the concepts public cloud, private cloud and infrastructure services. (08 Marks)
- b. Interpret the characteristics of fabric services and explain the characteristics of foundation services in Aneka. (08 Marks)

### Module-3

- 5 a. Explain the characteristics of functional decomposition with an example. (08 Marks)
- b. Differentiate between Aneka thread and common thread. Explain any two of them in detail. (08 Marks)

OR

- 6 a. Define Thread. Describe the relationship between process and threads with a neat diagram. (08 Marks)
- b. Classify computing categories and discuss any two in detail. (08 Marks)

### Module-4

- 7 a. Analyse Map-Reduce programming model and MapReduce computation workflow with a neat diagram. (08 Marks)
- b. Describe Distributed File System. List all the distributed file systems. Explain any 3 of them. (08 Marks)

OR

- 8 a. Describe data intensive computing and its characteristics. (08 Marks)
- b. Analyse alternatives to MapReduce. Explain task based application models. (08 Marks)

### Module-5

- 9 a. What is AWS? What types of services does it provide? Explain with ecosystem diagram. (08 Marks)
- b. Explain Google App Engine platform architecture. (08 Marks)

OR

- 10 a. What is SQL Azure? Explain with neat diagram SQL Azure architecture. (08 Marks)
- b. List and explain storage service of AWS. (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.

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