

CBCS SCHEME



15CS742

Seventh Semester B.E. Degree Examination, June/July 2024 Cloud Computing and its Applications

Max. Marks : 80

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

Module-1

- 1 a. Explain cloud computing reference model with neat diagram. (10 Marks)
b. Write a note on the challenges in cloud computing. (06 Marks)

OR

- 2 a. Explain Microsoft Hyper V architecture. (10 Marks)
b. Explain pros and cons of virtualization. (06 Marks)

Module-2

- 3 a. Classify the service offered by cloud computing. Explain any one of the service in detail. (08 Marks)
b. With a neat diagram, describe the private cloud hardware and software stack. List the advantages of private cloud computing infrastructure. (08 Marks)

OR

- 4 a. Describe Aneka container. Explain briefly the three service offered by the Aneka container. (08 Marks)
b. Describe the Aneka service model with a neat diagram of service life cycle. (08 Marks)

Module-3

- 5 a. Describe the two major techniques used for parallel computing with threads. (08 Marks)
b. Explain the major differences between Aneka threads and local threads. (08 Marks)

OR

- 6 a. List and explain popular frameworks for task computing. (08 Marks)
b. Explain the features provided by Aneka for the execution of parameter sweep applications. (08 Marks)

Module-4

- 7 a. List out the open challenges in data intensive computing. (06 Marks)
b. Explain the Google Bigtable architecture. (10 Marks)

OR

- 8 a. Explain the map reduce programming model. (10 Marks)
b. Explain any three distributed file systems. (06 Marks)

Module-5

- 9 a. Describe any four popular cloud computing products. Indicate their service type. (08 Marks)
b. Describe in detail the "Simple Storage Service" offered by Amazon S3. (08 Marks)

OR

- 10 a. Explain online health monitoring system hosted in cloud. (08 Marks)
b. What are dropbox and icloud? Which kind of problems do they solve by using cloud technologies? (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.