



CBCS SCHEME
15CS742
Seventh Semester B.E. Degree Examination, June/July 2019
Cloud Computing and its Applications
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. List any four characteristics and benefits of cloud computing. (08 Marks)
b. Describe the three major milestones which have led to cloud computing. (06 Marks)
c. Define service oriented computing and utility oriented computing. (02 Marks)

OR

2. a. What is virtualization? What are the characteristics of virtualized environment? (08 Marks)
b. What is an Hypervisor? Explain how hardware virtualization can be achieved. (08 Marks)

Module-2

3. a. Classify the services offered by cloud computing. Explain any one of the services 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 Anika container. Explain briefly the three services offered by the Anika container. (08 Marks)
b. Describe the Anika service model with a neat diagram of service life cycle. (08 Marks)

Module-3

5. a. Describe the relationship between a process and a thread. (08 Marks)
b. Explain with an example, Domain Decomposition. Write Anika code to create matrix product class. (08 Marks)

OR

6. a. What is task computing? Describe parameter sweep application with an example. (10 Marks)
b. List and explain Anika ready-to-use task libraries. (06 Marks)

Module-4

7. a. Define Data Intensive computing. List any six open challenges in Data Intensive computing. (08 Marks)
b. Bring out the salient features of Map Reduce programming model with a neat diagram of Map Reduce computation flow. (08 Marks)

OR

8. a. Explain the Google Big Table Architecture. (08 Marks)
b. List and explain the parameters that can be controlled during execution of Anika mapReduce Application. (08 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 ikloud? Which kind of problems do they solve by using cloud technologies? (08 Marks)

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