

CBCS SCHEME

USN

--	--	--	--	--	--	--	--	--	--

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 environments? (08 Marks)
b. What is an Hypervisor? Explain how hardware virtualization can be achieved. (08 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 relationship between a process and a thread. (08 Marks)
b. Explain with an example, Domain Decomposition. Write Aneka 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 Aneka 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 compworkflow. (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 Aneka 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 icloud? Which kind of problems do they solve by using cloud technologies? (08 Marks)

* * * * *

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.