



CBCS SCHEME

15CS742

Seventh Semester B.E. Degree Examination, Jan./Feb. 2023 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. What is Cloud Computing? Explain the vision of cloud computing with diagram. (06 Marks)
- b. Describe any four characteristics of cloud computing. (04 Marks)
- c. "Web is the primary interface through which cloud computing delivers its services", Justify. (06 Marks)

OR

- 2 a. With a neat diagram, explain the taxonomy of virtualization techniques. (04 Marks)
- b. Explain the characteristics of virtualized environments with a neat diagram. (06 Marks)
- c. With a neat diagram, explain the machine reference model. Also explain security rings. (06 Marks)

Module-2

- 3 a. What is IaaS? Explain IaaS reference implementation with neat diagram. (06 Marks)
- b. Define community cloud, list the candidate sectors and advantages of community cloud. (06 Marks)
- c. List the essential characteristics that identify a PaaS solution. (04 Marks)

OR

- 4 a. With a neat diagram, explain the Aneka Framework overview. (06 Marks)
- b. Discuss the private deployment of Aneka clouds. (06 Marks)
- c. With a neat diagram, describe the Aneka service life cycle. (04 Marks)

Module-3

- 5 a. Explain the sine, cosine and tangent implementation under functional decomposition using Aneka Threads. (10 Marks)
- b. List out the differences between Aneka thread versus Common thread. Explain any two of them in detail. (06 Marks)

OR

- 6 a. Define thread. Explain the relationship between process and threads with a neat diagram. (06 Marks)
- b. List and explain the computing categories that relate to task computing. (06 Marks)
- c. Explain any four Task libraries. (04 Marks)

Module-4

- 7 a. Describe the characteristics that define data-intensive computing. (04 Marks)
- b. List out open challenges in data-intensive computing given by Ian Gordon Et al. (06 Marks)
- c. Explain Amazon Dynamo architecture with a neat diagram. (06 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.

OR

- 8 a. Explain the Google MapReduce infrastructure. (06 Marks)
b. Explain the alternatives to MapReduce. (04 Marks)
c. Explain Aneka MapReduce infrastructure with a neat diagram. (06 Marks)

Module-5

- 9 a. Describe Amazon EC2 and its basic features. (06 Marks)
b. What is AWS? What types of services does it provide? (04 Marks)
c. Explain Google App Engine platform architecture. (06 Marks)

OR

- 10 a. Write a note on healthcare : ECG Analysis in cloud with a neat diagram. (06 Marks)
b. Write a note on Animoto reference architecture. (06 Marks)
c. Explain the concept of Eycos with a neat diagram. (04 Marks)
