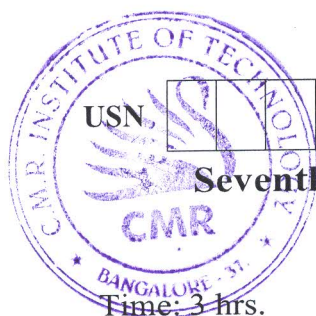


CBCS SCHEME



15CS742

Seventh Semester B.E. Degree Examination, Dec.2023/Jan.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. 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 Define PaaS. PaaS reference model with neat diagram and list the essential characteristics that identify and PaaS solution. (16 Marks)

OR

- 4 How do you build Aneka clouds? Explain Infrastructure and logical organization of building Aneka clouds. (16 Marks)

Module-3

- 5 a. Explain the domain decomposition techniques for parallel computation. (10 Marks)
- b. What is multiprocessing? Describe the different techniques for implementing multiprocessing. (06 Marks)

OR

- 6 a. Explain the computing categories for task computing. (06 Marks)
- b. Explain reference model of a workflow system. (10 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 MapReduce 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)

CMRIT LIBRARY
BANGALORE - 560 037

Module-5

- 9 With neat diagram, explain Microsoft windows Azure platform Architecture. (16 Marks)

OR

- 10 a. What are DropBox and icloud? Which kind of problem do they solve by using cloud technologies? (08 Marks)
- b. Provide some examples of media applications that use 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.