USN | | | | | | | | | | | 15CS742
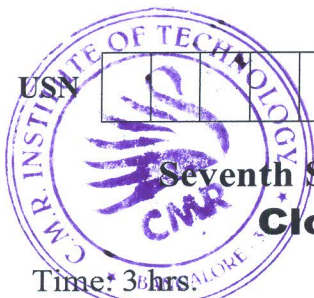
Seventh Semester B.E. Degree Examination, June/July 2023
Cloud Computing and its Applications

Time: 3 hrs.   Max. Marks : 80

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

Module-1

1 a. 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. Explain Amazon S3 key concepts.   (08 Marks)
   b. Describe the core components of Google AppEngine.   (08 Marks)

OR

10 a. Describe how cloud computing technology can be applied to support remote ECG monitoring.   (08 Marks)
   b. Describe three examples of CRM and ERP implementations based on cloud computing technologies.   (08 Marks)

* * * * *