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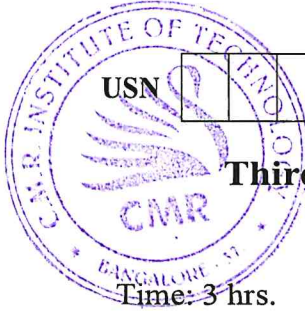
20MCA342

Third Semester MCA Degree Examination, July/August 2022
Cloud Computing

Time: 3 hrs.

Max. Marks: 100

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

Module-1
1   a. Explain Cloud Computing reference model, with a neat diagram.   (10 Marks)
    b. List and explain any four different cloud computing platforms and technologies. (10 Marks)

OR

2   a. What are the major distributed computing technologies that led to cloud computing?
                                                                                        (10 Marks)
    b. Describe the main characteristics and benefits of cloud computing.   (06 Marks)
    c. Briefly describe the challenges ahead in cloud computing.   (04 Marks)

Module-2
3   a. Briefly explain the hardware architectures for parallel processing.   (10 Marks)
    b. Explain the different approaches to parallel programming and levels of parallelism.
                                                                                        (10 Marks)

OR

4   a. Briefly explain the layered view of a distributed system.   (10 Marks)
    b. Briefly explain the architectural styles for distributed computing.   (10 Marks)

Module-3
5   a. Describe the characteristics of virtualized environments with the required diagrams.
                                                                                        (08 Marks)
    b. With a neat diagram, explain Xen architecture and guest OS management.   (06 Marks)
    c. Explain live migration and server consolidation with a neat diagram.   (06 Marks)

OR

6   a. Distinguish between full virtualization and para virtualization.   (10 Marks)
    b. With a neat diagram, explain the taxonomy of virtualization techniques.   (10 Marks)

Module-4
7   a. Classify the different types of clouds and explain.   (10 Marks)
    b. Explain platform as a service reference model.   (10 Marks)

OR

8   a. What does the acronym XaaS stand for? Describe the different categories of options
        available in PaaS market.   (10 Marks)
    b. With a neat diagram, explain Hybrid/heterogenous cloud overview.   (10 Marks)

Module-5

9 a. Describe how cloud computing technology can be applied to support remote ECG monitoring. **(10 Marks)**

b. Briefly explain architecture and overview of the Jeeva portal. **(10 Marks)**

OR

10 a. Explain the media applications.
  i) Animoto
  ii) Maya Rendering with Aneka. **(10 Marks)**

b. Explain the salesforce and Force.com architecture. **(10 Marks)**

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