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17CS742

Seventh Semester B.E. Degree Examination, Feb./Mar. 2022
Cloud Computing and its Applications

Time: 3 hrs.

Max. Marks: 100

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

Module-1

1   a. Explain the Core technologies that played on important role in realization of Cloud Computing. **(10 Marks)**
     b. What is Virtualization? Explain the characteristics of Virtualized Environments. **(10 Marks)**

OR

2   a. Discuss Classification or Taxonomy of Virtualization at different levels. **(10 Marks)**
     b. Discuss the Pros and Cons of Virtualization. **(10 Marks)**

Module-2

3   a. Describe Cloud Computing Reference Model with neat diagram. **(10 Marks)**
     b. Discuss Open Challenges for Cloud Computing. **(10 Marks)**

OR

4   a. Describe Aneka Container and explain briefly the three services offered by Aneka Container. **(10 Marks)**
     b. Discuss Building of Cloud using Aneka Platform. **(10 Marks)**

Module-3

5   a. Discuss the two major techniques used for parallel computing with threads. **(10 Marks)**
     b. Explain major difference between Aneka Threads and Common Threads. **(10 Marks)**

OR

6   a. List and explain Popular framework for Task Computing. **(10 Marks)**
     b. Explain the Abstract model of a Workflow system. **(10 Marks)**

Module-4

7   a. Explain Map Reduce Programming model, with a neat diagram. **(10 Marks)**
     b. Explain Google Big table Architecture. **(10 Marks)**

OR

8   a. Explain the major components of Aneka Map Reduce programming with diagram. **(10 Marks)**
     b. What is Data Intensive Computing? Explain the Open challenges in Data Intense Computing. **(10 Marks)**

Module-5

9   a. Describe Core components of Google App Engine, with neat diagram. **(10 Marks)**
     b. Explain Animoto Media application that uses Cloud technology. **(10 Marks)**

OR

10   a. Explain the Window Azure Platform Architecture, with neat diagram. **(10 Marks)**
     b. Describe how Cloud Computing can be applied to Remote ECG monitoring. **(10 Marks)**

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