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15CS565

Fifth Semester B.E. Degree Examination, Dec.2019/Jan.2020
Cloud Computing

Time: 3 hrs.   Max. Marks: 80

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

Module-1

1   a. Define Cloud Computing. Explain Distributed system its milestores and Service Oriented Computing. **(06 Marks)**
    b. Explain different Computing platforms and technologies. **(06 Marks)**
    c. Summarize the closer look of cloud. **(04 Marks)**

OR

2   a. With a neat diagram, explain Machine reference model and Privileged modes. **(06 Marks)**
    b. Explain the characteristics and applications of Virtualized environment. **(06 Marks)**
    c. Describe different Virtualization techniques. **(04 Marks)**

Module-2

3   a. Explain Cloud Computing Architecture, with a neat diagram. **(06 Marks)**
    b. List the different challenges in the cloud. **(06 Marks)**
    c. Describe Community cloud with a neat diagram. **(04 Marks)**

OR

4   a. With a neat diagram, explain Aneka frame work overview and its services. **(06 Marks)**
    b. Describe Fabric services, Resource reservation and Execution models. **(06 Marks)**
    c. Explain Hybrid Cloud deployment mode, with a neat diagram. **(04 Marks)**

Module-3

5   a. Define Thread. Describe the relation between Threads and Processes, with a neat sketch. **(06 Marks)**
    b. With a neat diagram, Analyse Thread life cycle. **(05 Marks)**
    c. Explain Thread Synchronization and Thread Priorities. **(05 Marks)**

OR

6   a. Define MPI. Explain its program structure. **(06 Marks)**
    b. Explain different operations of Task Libraries. **(05 Marks)**
    c. Describe different computing categories. **(05 Marks)**

Module-4

7   a. Define Data Intensive Computing. Explain its historical perspective. **(06 Marks)**
    b. With a neat diagram, explain Amazon Dynamo Architecture. **(06 Marks)**
    c. Define Lustre , GPFS , GFS and Sector. **(04 Marks)**

OR

8   a. With a neat diagram, describe Aneka Map Reduce infrastructure. **(06 Marks)**
    b. Explain the variations and extensions of Map Reduce. **(06 Marks)**
    c. List the parameters that can be controlled in Aneka Map Reduce Programming. **(04 Marks)**

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Module-5

9 a. Explain Google App Engine Architecture and its Runtime environment, with a neat diagram. (06 Marks)
   b. Explain the six categories of EC_2 instances. (06 Marks)
   c. Describe Amazon RDS. (04 Marks)

OR

10 a. With a neat diagram, explain Microsoft Azure Compute Services. (06 Marks)
   b. Analyze Animoto Reference Architecture. (06 Marks)
   c. Explain Multiplayer Online gaming in detail. (04 Marks)

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