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16/17MCA542

Fifth Semester MCA Degree Examination, Aug./Sept. 2020
Cloud Computing

Time: 3 hrs.

Max. Marks: 80

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

Module-1

1   a.   Explain the different computing paradigms.   **(08 Marks)**
    b.   Give the architecture of P2P systems. What are the major categories of P2P networks?   **(08 Marks)**

OR

2   a.   Discuss HPC and HTC in detail.   **(08 Marks)**
    b.   What is Cluster? With a neat diagram, explain Cluster Architecture.   **(08 Marks)**

Module-2

3   a.   Discuss the performance metrics and dimensions of scalability for parallel and distributed systems.   **(08 Marks)**
    b.   Write and explain Amdahi's law and Gustufson's law.   **(08 Marks)**

OR

4   a.   Explain different programming models for parallel and Distributed computing.   **(08 Marks)**
    b.   Discuss various types of system attacks and network threats to the cyberspace with prevention schemes.   **(08 Marks)**

Module-3

5   a.   What is VMM? Explain XEN architecture with suitable diagram.   **(08 Marks)**
    b.   Explain levels of virtualization implementation.   **(08 Marks)**

OR

6   a.   Explain the process of Live Migration of VM from one host to another.   **(08 Marks)**
    b.   Explain Para – Virtualization technique.   **(08 Marks)**

Module-4

7   a.   List and explain Data Center Management issues.   **(08 Marks)**
    b.   Explain Amazon cloud computing infrastructure.   **(08 Marks)**

OR

8   a.   Explain Architecture design challenger for cloud.   **(08 Marks)**
    b.   Discuss Five public cloud offering of PaaS.   **(08 Marks)**

Module-5

9   a.   Explain Google File System.   **(08 Marks)**
    b.   Explain SQL Azure and Azure Table.   **(08 Marks)**

OR

10 a.   List and explain important cloud platform capabilities.   **(08 Marks)**
    b.   What is BigTable? Draw and explain data model of BigTable.   **(08 Marks)**

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