CBCS SCHEME

USN [   ]

16/17MCA542

Fifth Semester MCA 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. Outline the evolutionary trend towards parallel, distributed and cloud computing. **(08 Marks)**
   b. Describe Internet of Things (IOT) and Cyber Physical Systems (CPS). **(08 Marks)**

OR

2 a. Outline the cluster of cooperative computers. **(08 Marks)**
   b. Describe P2P networks and Overlays networks. **(08 Marks)**

Module-2

3 a. Describe Internet Cloud. Explain the cloud landscape based on three cloud service models with appropriate illustration. **(08 Marks)**
   b. Describe how cloud computing is cost effective compared to traditional IT computing. **(08 Marks)**

OR

4 a. Explain the Network threats and data integrity in distributed or cloud computing system. **(08 Marks)**
   b. Discuss Energy efficiency in Distributed computing. **(08 Marks)**

Module-3

5 a. Explain virtualization and also describe the various levels of virtualization implementation. **(10 Marks)**
   b. Explain in brief about the virtualization support at OS – level. **(06 Marks)**

OR

6 a. Describe Physical clusters and Virtual clusters with the help of a neat diagram. **(08 Marks)**
   b. Explain briefly about Cloud OS for virtualized data centers. **(08 Marks)**

Module-4

7 a. Illustrate AWS architecture with a neat diagram. **(12 Marks)**
   b. Describe the design objectives of cloud. **(04 Marks)**

OR

8 a. Illustrate Microsoft Window's Azure platform for cloud computing. **(12 Marks)**
   b. Write briefly the extended cloud computing services. **(04 Marks)**

Module-5

9 a. Explain MapReduce and the various steps involved in the MapReduce data flow. **(08 Marks)**
   b. Describe Big Table and the building blocks of Big Table. **(08 Marks)**

OR

10 a. Outline in detail the architecture of the Google File System (GFS). **(08 Marks)**
   b. Write short notes about emerging Cloud Software Environments. **(08 Marks)**

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11 JAN 2020