CBCS SCHEME

USN ☐☐☐☐☐☐☐☐☐☐

Fifth Semester MCA Degree Examination, June/July 2019
Cloud Computing

Time: 3 hrs.   Max. Marks: 80

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

Module-1

1   a. With a neat diagram, illustrate the evolution of HPC and HTC systems.   (08 Marks)
    b. Explain the following, with neat diagram
        i) Cluster Architecture   ii) P2P system.   (08 Marks)

OR

2   a. Explain in detail the various system models available for distributed and cloud computing.
                                                                                        (08 Marks)
    b. Write notes on : i) Internet of things (IoT)   ii)Cyber physical systems.   (08 Marks)

Module-2

3   a. Explain layered Architecture for Web Service and Grids.   (08 Marks)
    b. Discuss about the trends toward distributed operating systems.   (08 Marks)

OR

4   a. Explain different Parallel and Distributed programming models and also give their features.
                                                                                        (08 Marks)
    b. Discuss the security issues distributed and cloud computing.   (08 Marks)

Module-3

5   a. Define virtualization and also describe the various levels of virtualization.   (08 Marks)
    b. Write a neat diagram; explain live migration of VM from one host to another.   (08 Marks)

OR

6   a. Illustrate the concept of virtual clusters and physical clusters with a neat diagram. (08 Marks)
    b. Write a note on :i) Eucalyptus   ii) Xen Architecture.   (08 Marks)

Module-4

7   a. With a neat diagram, explain data center networking for the cloud to access the internet.
                                                                                        (08 Marks)
    b. What is cloud? Describe the cloud computing cost model.   (08 Marks)

OR

8   a. Discuss the detail the layered architecture development.   (08 Marks)
    b. Give the cloud design objectives and architectural design challenges.   (08 Marks)

Module-5

9   a. Discuss the short, traditional features common to Grids and clouds.   (04 Marks)
    b. Explain programming environment for Google App engine with a neat diagram.   (06 Marks)
    c. Explain Amazon S3 execution environment.   (06 Marks)

OR

10 a. Give the important cloud platform capabilities.   (04 Marks)
    b. Discuss programming on Amazon AWS.   (06 Marks)
    c. Explain Cloud software environment of open stack in detail.   (06 Marks)

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