CBCS SCHEME

USN ☐☐☐☐☐☐☐☐☐☐ 　　　　　　　　　　　　　16MCA542

Fifth Semester MCA Degree Examination, Dec.2018/Jan.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. Explain the evolutionary trend of scalable computing. (06 Marks)
　　b. Differentiate between high performance computing and High throughput computing.
　　　 (04 Marks)
　　c. Define RFID, GPS and IoT with examples. (06 Marks)

OR

2　a. Explain centralized computing, parallel, distributed and cloud computing. (12 Marks)
　　b. What are clusters of cooperative computers? (04 Marks)

Module-2

3　a. Discuss major cluster design issues and their features. (08 Marks)
　　b. Explain Peer-to-Peer network families with diagram. (08 Marks)

OR

4　a. What is cloud computing? Explain cloud architecture. (08 Marks)
　　b. Explain performance metrics in distributed systems. (08 Marks)

Module-3

5　a. What is virtualization? Explain implementation levels of virtualization. (08 Marks)
　　b. Define VMM with diagram of abstraction levels. (08 Marks)

OR

6　a. Explain OS level virtualization. (08 Marks)
　　b. Differentiate between hypervisor and Xen architecture. (08 Marks)

Module-4

7　a. Define public, private and hybrid clouds. (06 Marks)
　　b. Explain data-centre networking structure. (05 Marks)
　　c. List out and explain cloud design objectives. (05 Marks)

OR

8　a. Explain AWS, GAE and Ms Azure as cloud platforms. (12 Marks)
　　b. Define physical and cyber security. (04 Marks)

Module-5

9　a. List out and explain traditional features in cluster, grid, parallel computing environments.
　　　 (08 Marks)
　　b. Explain Mapreduce, Hadoop in cloud programming environment. (04 Marks)
　　c. What are GFS in software environment? (04 Marks)

OR

10　a. Explain Amazon EBS as cloud programming. (08 Marks)
　　 b. Explain emerging cloud software environments. (08 Marks)

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