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III Semester M.C.A. Degree Examination, April/May - 2026

COMPUTER SCIENCE

Cloud Computing (Elective)

(CBCS Scheme 2021-2022)

Time : 3 Hours

Maximum Marks : 70

Instructions to Candidates:

Answer any Five questions from Section - A and any Four questions from Section - B.

SECTION - A

I. Answer any Five of the following questions. Each question carries 6 marks. (5×6=30)

1. What are the key goals of Cloud Computing?
2. Explain the major challenges in Cloud Computing?
3. What is VM Migration? Explain its importance.
4. Define Infrastructure as a Service (IaaS) with examples.
5. Differentiate between grid computing and utility computing.
6. What is distributed computing? Explain briefly.
7. Explain the concept of MapReduce.
8. What is Network-level Security? Explain common techniques used.

SECTION - B

II. Answer any Four of the following questions. Each question carries 10 marks.

(4×10=40)

9. Discuss Cloud Economics and explain Total Cost of Ownership (TCO) with a detailed comparison to traditional IT infrastructure.
10. Explain Software as a Service (SaaS) in detail along with its architecture and application development lifecycle.
11. Discuss the integration of Private and Public Cloud (Hybrid Cloud) in detail with advantages.
12. Explain programming support and services provided by Google App Engine and Amazon Web Services.

[P.T.O.]



13. Describe different Cloud Software Environments such as Eucalyptus, OpenNebula, and OpenStack.
14. Explain the following terms:
 - a) Multi-tenancy issues in cloud computing.
 - b) Authentication in cloud computing.

(5+5)
