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III Semester M.C.A. Degree Examination June/July - 2024

COMPUTER SCIENCE

Cloud Computing (Elective)

(CBCS Y2K20 Scheme)

Time : 3 Hours

Maximum Marks : 70

Instructions to Candidates :

1. Answer any Five full questions from Part-A. Each question carries Six marks.
2. Answer any Four full questions from Part-B. Each question carries Ten marks.

PART - A

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

1. Define Cloud Computing? Explain Its working process.
2. What is SaaS? Explain challenges in SaaS Model.
3. Define Virtual Machine. Explain Virtual Machine services.
4. Explain the Integration of Private and Public cloud.
5. Discuss Parallel and Distributed programming paradigms.
6. Explain Google App Engine in programming support.
7. Discuss Network level Security in Cloud.
8. Explain Multi-Tenancy Issues in Cloud Security.

PART - B

Answer any **Four** full questions of the following. Each question carries **Ten** marks.

(4×10=40)

9. a) Explain the Types of Cloud.
b) Explain Leveraging Cloud Computing.

[P.T.O.]



10. a) Explain the Cloud Application Development Life cycle.
- b) Explain advantages of SaaS Services.
11. Discuss the Following Computing Components:
 - a) Utility Computing
 - b) Grid Computing
 - c) Distributed Computing
12. Explain the Open Nebula and Cloud Sim - Cloud software Environments.
13. Explain Access Control and Authentication techniques in Cloud Computing.
14. Write short Note on:
 - a) Data Security in Public Cloud
 - b) AmazonAWS