III Semester M.C.A. Examination, April/May 2022
(CBCS – Y2K20 Scheme)
COMPUTER SCIENCE
3MCA : Cloud Computing (Elective)

Time : 3 Hours

Max. Marks : 70

Instructions : *Answer **any five** questions from Section – **A** and **any four**
questions from Section – **B**.*

SECTION – A

Answer **any five** questions. **Each** carries **6** marks.   (5×6=30)

1. Define cloud computing. Enlist and explain the essential characteristics of cloud computing.

2. Give a brief account of cloud service models.

3. What is virtualization ? Discuss about Hypervisor Software Management.

4. Differentiate between cloud computing and distributed computing.

5. Discuss the advantages and disadvantages of PaaS.

6. Discuss the security in public and private clouds.

7. What is parallel programming ? Compare distributed programming with parallel programming.

8. Explain the information security in cloud computing.

SECTION – B

Answer **any four** questions. **Each** carries **ten** marks.   (4×10=40)

9. Discuss various applications of cloud computing. Explain how cloud computing can be used with respect to social networking.

10. Explain the cloud reference architecture and discuss the responsibilities of various actors.

11. Define OS virtualization. Discuss the virtual infrastructure requirements.

12. a) What is Google App Engine ? Explain the benefits of Google App Engine.   5

    b) Define Microsoft Azure. Discuss the components of Microsoft Azure.   5

13. Define Map-Reduce. Explain Hadoop ecosystem and mention its components.

14. Define cloud security. Discuss access control and authentication in cloud computing.

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