

Roll No. :

Total No. of Questions : 16]

[Total No. of Printed Pages : 3

SEMC-414

M.Sc. (IVth Semester) Examination, 2022

COMPUTER SCIENCE

Paper - MCS-403 (a)

(Cloud Computing)

Time : 1½ Hours]

[Maximum Marks : 40

Note :- The question paper contains three Sections.

Section-A

(Marks : 1 × 10 = 10)

Note :- Answer all *ten* questions (Answer limit **50** words). Each question carries **1** mark.

Section-B

(Marks : 3 × 5 = 15)

Note :- Answer *five* questions by selecting at least *one* question from each Unit. Each question carries **3** marks. Answer should not exceed **200** words.

Section-C

(Marks : 5 × 3 = 15)

Note :- Answer *three* questions by selecting *one* question from each Unit. Each question carries **5** marks. Answer should not exceed **500** words.

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Section–A

1. Attempt all questions. Answers should not exceed **50** words in each question.
 - (i) Define the terms Grid Computing and Quantum Computing.
 - (ii) Compare Distributed Computing with Parallel Computing and Network Computing.
 - (iii) What is Cloud Computing ?
 - (iv) Give a formal definition as per NIST.
 - (v) List out and brief the principles of Cloud Computing.
 - (vi) Write difference between On-premise and Off-premise.
 - (vii) What is SLA ?
 - (viii) What is its role in Cloud Computing ?
 - (ix) As per NIST give the definition of Infrastructure as a service.
 - (x) What is VMware ?

Section–B

Note :- Answer *five* questions by selecting at least *one* question from each Unit. Each question carries **3** marks. Answers should not exceed **200** words.

Unit–I

2. Mention the layers of PaaS Architecture.
3. What are the components of Amazon AWS ?
4. What is Hypervisors in Cloud Computing and its types.

Unit-II

5. Why hybrid clouds are so important ?
6. How to build a private cloud using open source tools ?
7. Write a brief note on Google's Cloud Storage.

Unit-III

8. Explain Infrastructure Secure Issue.
9. Describe the role of Network Connectivity in Cloud Computing.
10. Explain Data Location.

Section-C

Note :- Answer *three* questions by selecting *one* from each Unit. Each question carries **5** marks. Answers should not exceed **500** words.

Unit-I

11. List out and brief the features of Amazon Simple Queue Service.
12. Explain Google App Engine in detail.

Unit-II

13. Explain Industry Standards for Cloud Implementation.
14. What are the Pros and Cons of SaaS ? Explain in detail.

Unit-III

15. Discuss Information Security in Cloud Computing.
16. Explain Jurisdictional Issues raised by Data Location.