

Roll No. : .....

Total No. of Questions : 16 ]

[ Total No. of Printed Pages : 3

# SEM4018

M.Sc. (IVth Semester) Examination, 2021

## 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 the *ten* questions carries 1 mark each. The answer should not exceed 50 words.

### Section-B

(Marks : 3 × 5 = 15)

**Note** :- Answer *five* questions by selecting at least *one* question from each Unit. Each question carries 3 marks. Answers 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. The answer should not exceed 500 words.

### Section-A

1×10=10

1. Attempt all questions. Answers should not exceed 50 words in each question.

(i) What is Cloud ?

(ii) What are different data types used in Cloud Computing ?

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- (iii) Explain SaaS.
- (iv) What is Private Cloud ?
- (v) What are the security benefits of Cloud Computing ?
- (vi) What is VMware ?
- (vii) What is host level security ?
- (viii) Write difference between on-premise and off-premise.
- (ix) Explain authentication in cloud computing.
- (x) Explain advantages of hybrid cloud.

**Section-B**

**3×5=15**

**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 hypervisor 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. What is meant by on-premises in cloud ?

**Unit-III**

- 8. Explain infrastructure security issue.
- 9. Explain application level security.
- 10. Explain data location.

**Section-C**

**5×3=15**

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

**Unit-I**

11. What is AWS ? Mention the key components of AWS ?
12. Explain Google app engine in detail.

**Unit-II**

13. Explain industry standards for cloud implementation.
14. How to design a data centre-based cloud ? Explain in detail.

**Unit-III**

15. Explain jurisdictional issues raised by data location.
16. Explain cloud security architecture.