

K. J. Somaiya Institute of Technology, Sion, Mumbai-22
(Autonomous College Affiliated to University of Mumbai)

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| Nov – Dec 2023 | | |
| (B.Tech) Program: Electronics and Telecommunication Scheme II | | |
| Examination: LY Semester: VII | | |
| Course Code: EXDLC7044 and Course Name: Cloud Computing & Security | | |
| Date of Exam: 1/12/23 | Duration: 2.5 Hours | Max. Marks: 60 |

| Instructions: | | | | |
|---|---|------------|-----|----------|
| (1) All questions are compulsory. | | | | |
| (2) Draw neat diagrams wherever applicable. | | | | |
| (3) Assume suitable data, if necessary. | | | | |
| | | Max. Marks | CO | BT level |
| Q 1 | Solve any six questions out of eight: | 12 | | |
| i) | Justify- Cloud services provide a broad access network. | 2 | CO1 | 3 |
| ii) | What is the need of virtualization? | 2 | CO2 | 1 |
| iii) | Describe Backup as a Service | 2 | CO3 | 1 |
| iv) | What is a Horizon? | 2 | CO4 | 2 |
| v) | What are the different features provided by aws? | 2 | CO5 | 2 |
| vi) | Give two examples of type-2 hypervisors. | 2 | CO2 | 2 |
| vii) | Describe Single Sign On (SSO) | 2 | CO6 | 1 |
| viii) | Elaborate on how Content delivery services speed up the delivery process on cloud. | 2 | CO4 | 2 |
| Q.2 | Solve any four questions out of six. | 16 | | |
| i) | Compare and contrast between- Service Oriented Architecture and Cloud Component Architecture | 4 | CO1 | 2 |
| ii) | Justify given statement- Cloud storage gateways provide better authentication and authorization on cloud (Use CSG architecture to support the answer) | 4 | CO4 | 1 |
| iii) | Explain Analytics as a Service | 4 | CO3 | 2 |
| iv) | List down different types of cloud deployment. Also elaborate each type. | 4 | CO1 | 1 |
| v) | Differentiate between Full Virtualization, Partial Virtualization and Paravirtualization | 4 | CO2 | 2 |

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|------------|--|-----------|-----|---|
| vi) | Explain ELB storage service on cloud. | 4 | CO5 | 2 |
| Q.3 | Solve any two questions out of three. | 16 | | |
| i) | Explain Simple Storage Service | 8 | CO5 | 2 |
| ii) | Draw and explain the architecture of IAAS (Infrastructure as a Service) | 8 | CO3 | 2 |
| iii) | Explain NIST model in brief. | 8 | CO1 | 2 |
| Q.4 | Solve any two questions out of three. | 16 | | |
| i) | Explain how the AAA model provides administration security to the cloud. | 8 | CO6 | 3 |
| ii) | What are different levels of virtualization? Also elaborate on how virtualization is achieved at any two levels. | 8 | CO2 | 2 |
| iii) | Explain Cloud Bigtable Architecture | 8 | CO5 | 2 |
