

Total No. of printed pages = 2

**CSE 1817 PE 41**

Roll No. of candidate

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19/12/2021

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SCIENCE & TECH  
S.V. Hall

**B.Tech. 7<sup>th</sup> Semester End-Term Examination**

**CLOUD COMPUTING**

**New Regulation (w.e.f. 2017-18) &**

**New Syllabus (w.e.f. 2018-19)**

Full Marks – 70

Time – Three hours

The figures in the margin indicate full marks for the questions.

Answer Question No. 1 and any *four* from the rest.

1. Fill in the blanks : (10 × 1 = 10)
- (a) The full form of SaaS is \_\_\_\_\_.
  - (b) The full form of Amazon S3 is \_\_\_\_\_.
  - (c) The full form of DNS is \_\_\_\_\_.
  - (d) The full form of SSH is \_\_\_\_\_.
  - (e) By default, the HTTPS service runs on Port number \_\_\_\_\_.
  - (f) The DNS service uses the \_\_\_\_\_ protocol.
  - (g) The Amazon EC2 is an example of \_\_\_\_\_ as-a-Service.
  - (h) A VPN can be used to tunnel private network traffic across the Internet (True / False) \_\_\_\_\_.
  - (i) The AES is used for Hashing (True/False)
  - (j) A Firewall can be used by a server to block access from certain IP addresses (True / False) \_\_\_\_\_.
2. Briefly explain the Service Models IaaS, PaaS, and SaaS of cloud computing, with examples and advantages of each type. (15)

[Turn over

3. (a) Briefly explain the different types and methods of Authentication. (5 + 5 + 5 = 15)
- (b) Briefly explain the different Access Control models.
- (c) Briefly explain how Event Correlation can be done, and why is it important?
4. (a) Briefly explain what is DAS, NAS and SAN, with their relative merits.
- (b) Differentiate between Thick and Thin provisioning.
- (c) Mention any Three (3) methods used to achieve high availability of storage. (6 + 6 + 3 = 15)
5. (a) What is RAID, and how is it useful in storage provisioning?
- (b) Briefly explain the working of the following RAID levels with their merits:
- RAID 0
- RAID 1
- RAID 3
- RAID 5
- (3 + 12 = 15)
6. Write short notes (any three) : (3 × 5 = 15)
- (a) Private Cloud
- (b) Virtualization vs. Containerization
- (c) Encryption at-rest vs. Encryption in-transit
- (d) Fog Computing
- (e) VPN

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