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B.E. (Artificial Intelligence and Machine Learning)
CLOUD COMPUTING
(2019 Pattern) (Semester - VII) (418542)

Time : 2½ Hours]   *[Max. Marks : 70*

Instructions to the candidates:

1) Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8.
2) Neat diagrams must be drawn wherever necessary.
3) Figures to the right indicate full marks.
4) Assume suitable data if necessary.

Q1) a) Enlist the advantages of "Infrastructure as A Service" (IaaS)? Support your answer with a suitable diagram and example. **[9]**

b) Explain Microsoft Azure Services with supporting examples. **[8]**

OR

Q2) a) Enlist the advantages of "Software as A Service" (SaaS)? Support your answer with a suitable diagram and example. **[9]**

b) Narrate the situations wherein the following cloud services will be helpful. **[8]**

    i) Amazon - Amazon Elastic Compute Cloud (EC2)

    ii) Amazon Simple Storage Service (S3)

Q3) a) Explain the architecture of Google File System (GFS) and write a situation where in the use of GFS is suitable in IT Industry. **[6]**

b) What is Hadoop Distributed File System? Elaborate it with a diagram. **[6]**

c) Differentiate between Hbase and Dynamo file System. **[6]**

OR

Q4) a) List the major cloud storage providers and devise their pros and cons.**[6]**

b) Write short notes on Data store and Simple DB. **[6]**

c) Describe virtual storage containers along with their advantages and disadvantages. **[6]**

Q5) a) Enlist the cloud security mechanism and explain any two of them in detail along with examples. **[6]**

b) Discuss hashing in cloud computing in detail. **[5]**

c) Explain the following : **[6]**

i) Encryption in cloud security

ii) Identity Access Management (IAM) in cloud security.

OR

Q6) a) Describe potential threats and vulnerability in cloud security. **[6]**

b) Explain Single Sign On (SSO) in detail. **[5]**

c) Write a short note on the following with reference to cloud security: **[6]**

i) Integrity

ii) authenticity

iii) Risks

Q7) a) Describe Docker workflow with suitable examples. **[5]**

b) Write notes on : **[5]**

i) SAML OAuth

ii) SSL/TLS

c) Explain Open Cloud Consortium with help of Open Virtualization Format.

[8]

OR

Q8) a) Write notes on : **[5]**

i) Process Simplification

ii) Broad Support and adoption

b) Explain common standards for security in cloud computing. **[5]**

c) Explain the standard messaging protocol used in cloud computing. **[8]**

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