June 10, 2024 10:30 am - 01:30 pm 1T01037 - B.E.(Electronics and Telecommunication)(SEM-VII)(Choice Base Credit Grading System) (R- 2019-20)(C Scheme) / 42475 - CLOUD COMPUTING AND SECURITY (DLOC - III) QP CODE: 10055607

Duration: 3 Hours   **[Max Marks:80]**

N.B. :
  (1) Question No 1 is Compulsory.
  (2) Attempt any three questions out of the remaining five.
  (3) All questions carry equal marks.
  (4) Assume suitable data, if required and state it clearly.

1		Attempt any FOUR	**[20]**
	a	Define multi-tenancy. What is the difference between virtual and organic tenancy?	
	b	Define virtualization. What is the difference between full, para and hardware assisted virtualization?	
	c	How can a cloud application be made scalable?	
	d	Explain the groups involved in SAML	
	e	Explain fog and edge computing.	
2	a	Explain various implementation levels of virtualization with necessary diagram	**[10]**
	b	Explain various layers in the cloud reference model.	**[10]**
3	a	Explain analytics services in cloud with example of any one cloud service provider	**[10]**
	b	How is data security implemented for data at rest and in motion?	**[10]**
4	a	i) What are the functions of model, view and controller in MVC model?	**[10]**
		ii) What are the benefits and limitations of non-relational databases over relational databases?	
	b	Explain Apache Cloudstack, Eucalyptus, openstack open source private cloud softwares.	**[10]**
5	a	Explain how Cloud Storage Gateways (CSGs) provide data protection with its features and necessary diagram.	**[10]**
	b	What are the steps involved in case based reasoning?	**[10]**
6	a	What aspects of cloud computing make it useful for prognostic health management applications for energy systems?	**[10]**
	b	List the different streaming methods and explain RTMP streaming,HTTP live streaming and HTTP Dynamic streaming	**[10]**

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