QUESTION BANK

Semester: VII	Department of Electronics and Computer Engineering	AY: 2026–27
Course Code: BUE714C	Course Name: Cloud Computing	

Q.	Module-01	M	L (RBTL)	C (CO)
1.	Define cloud computing and list its major characteristics.	6	L1	CO1
2.	Explain the rationale behind the cloud computing revolution and its business drivers.	8	L2	CO1
3.	Describe the historical development of cloud computing.	8	L2	CO1
4.	Explain the concept of building computing environments in web services.	8	L2	CO1
5.	Describe the major services offered by Amazon Web Services (AWS) at an introductory level.	8	L2	CO1
6.	Explain the features and role of Microsoft Azure in cloud computing.	8	L2	CO1
7.	Discuss Google App Engine and its role in application hosting.	8	L2	CO1
8.	Explain Hadoop and its relevance to cloud computing environments.	8	L2	CO1
9.	Write a note on Force.com and Salesforce.com as cloud platforms.	8	L2	CO1
10.	Describe Aneka middleware and explain its role in cloud application development.	8	L2	CO1

Q.	Module-02	M	L (RBTL)	C (CO)
11.	Define virtualization and explain the characteristics of a virtualized environment.	6	L2	CO2
12.	Explain the taxonomy of virtualization techniques.	8	L2	CO2
13.	Describe execution virtualization with a suitable example.	8	L2	CO2
14.	Explain the relationship between virtualization and cloud computing.	8	L2	CO2
15.	Discuss the advantages of virtualization in a cloud environment.	8	L2	CO2
16.	Explain the limitations and disadvantages of virtualization.	8	L2	CO2
17.	Describe hardware-level virtualization and its purpose.	8	L2	CO2
18.	Explain operating-system-level virtualization and give an example.	8	L2	CO2
19.	Discuss programming-language-level virtualization with an example.	8	L2	CO2
20.	Explain any two technology examples of virtualization.	8	L2	CO2

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Q.	Module-03	M	L (RBTL)	C (CO)
21.	Define cloud computing architecture and state its major components.	6	L2	CO3
22.	Explain the cloud reference model with a neat diagram.	8	L2	CO3
23.	Describe the different types of clouds.	8	L2	CO3
24.	Differentiate public cloud and private cloud.	8	L2	CO3
25.	Explain hybrid cloud and discuss its major features.	8	L2	CO3
26.	Describe the economics of the cloud.	8	L2	CO3
27.	Explain how cloud computing can reduce capital and operational costs.	8	L2	CO3
28.	Discuss the major open challenges in cloud computing.	8	L2	CO3
29.	Explain the role of service and deployment models in cloud architecture.	8	L2	CO3
30.	Describe the infrastructure and delivery models of cloud computing.	8	L2	CO3

Q.	Module-04	M	L (RBTL)	C (CO)
31.	Define cloud security and list the major risks associated with cloud computing.	6	L2	CO4
32.	Explain the top security concerns of cloud users.	8	L2	CO4
33.	Describe privacy impact assessment in the context of cloud computing.	8	L2	CO4
34.	Explain the importance of trust in cloud computing.	8	L2	CO4
35.	Discuss operating-system security issues in a cloud environment.	8	L2	CO4
36.	Explain virtual-machine security and its importance.	8	L2	CO4
37.	Describe the security risks posed by shared images.	8	L2	CO4
38.	Explain the security concerns associated with the management operating system.	8	L2	CO4
39.	Discuss data confidentiality, integrity and availability as cloud security concerns.	8	L2	CO4
40.	Explain measures that can be adopted to reduce security risks in cloud environments.	8	L2	CO4

Q.	Module-05	M	L (RBTL)	C (CO)
41.	List the compute services provided by Amazon Web Services (AWS).	6	L1	CO5
42.	Explain AWS storage services and their uses.	8	L2	CO5
43.	Describe AWS communication services and their applications.	8	L2	CO5
44.	Explain any four additional services offered by AWS.	8	L2	CO5
45.	Describe the architecture and core concepts of Google App Engine.	8	L2	CO5
46.	Explain the application life cycle in Google App Engine.	8	L2	CO5
47.	Discuss the cost model of Google App Engine.	8	L2	CO5
48.	Explain the observations and key considerations associated with Google App Engine.	8	L2	CO5
49.	Illustrate how cloud computing is used for ECG analysis in healthcare.	8	L3	CO5

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50.	Explain cloud-based gene expression analysis for cancer diagnosis and discuss CRM/ERP, social networking or media applications in the cloud.	10	L3	CO5

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