

Department of MCA

Question Bank

Academic Year : 2024-25

Class: FYMCA'A'

Subject: Cloud Computing

Semester: I

Subject Code: MCAL108

Sr. No.	Questions	CO	BL
1	Identify the essential characteristics of cloud computing.	1	L1
2	Evaluate the impact of cloud storage solutions on data management for organizations.	2	L5
3	Describe service models of cloud computing (IaaS, PaaS, SaaS).	1	L1
4	Describe the components of cloud computing architecture.	1	L1
5	Discuss the differences among public, private, and hybrid cloud deployment models.	2	L2
6	Illustrate how a small business could use cloud computing principles to reduce IT costs.	1	L3
7	Demonstrate how to apply cloud management practices in an organization.	2	L3
8	Explain the advantages of cloud computing compared to traditional computing models.	1	L2
9	Discuss the differences among public, private, and hybrid cloud deployment models.	1	L2
10	Provide an example of migrating a traditional application to a cloud environment.	2	L3
11	Compare the concepts of SOA and cloud computing	2	L4
12	Identify the key features of network connectivity in cloud computing	1	L1
13	Describe phases involved in migrating applications to the cloud	2	L1
14	Evaluate the advantages of using Restful APIs in cloud applications.	2	L5
15	Illustrate the role of APIs in cloud applications.	2	L2
16	Compare the characteristics of IaaS, PaaS, and SaaS.	1	L4
17	Discuss concepts of Service-Oriented Architecture (SOA).	2	L2
18	Name the basic concepts of Service-Oriented Architecture (SOA).	2	L1
19	Explain the significance of managing cloud infrastructure	2	L2
20	Discuss the differences between SOAP and REST web services.	2	L2

21	Define the concept of virtualization.	3	L1
22	How does Xen implement Para virtualization?	3	L2
23	Explain the difference between full virtualization and Para virtualization	3	L2
24	Describe the role of a virtual machine manager (VMM) in server virtualization	3	L2
25	How would you use PaaS to develop a web application? Provide a simple workflow for utilizing the service.	4	L3
26	Compare the advantages and disadvantages of using Xen (Para virtualization) versus VMware (full virtualization).	3	L5
27	Identify the main distinctions between the two technologies in terms of performance and resource management.(Xen& para virtualization and VMware's full virtualization)	3	L4
28	Evaluate the security implications of using virtualization technologies like VMware and Xen?	3	L4
29	Identify two examples of Software as a Service (SaaS) applications.	4	L1
30	Explain how IaaS benefits businesses in terms of scalability and cost.	4	L2
31	Differentiate between SOAP and REST in terms of their use in web services for cloud computing	3	L5
32	Identify the main advantages and disadvantages of cloud computing	1	L1
33	Explain the importance of ensuring data confidentiality in cloud security	2	L2
34	Explain the Cloud Security and its types?	2	L2
35	Describe Virtualization and Its Types in details	2	L2
36	Describe attacks and illustrate its types	2	L2

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HOD