

1. Application virtualization
2. Network virtualization
3. Desktop virtualization
4. Storage virtualization

- 1-f. Cloud computing offers three services (CO3) 1
1. TRUE
 2. FALSE
- 1-g. Is Google Doc related to cloud computing? (CO4) 1
1. TRUE
 2. FALSE
- 1-h. CloudSim is a library for simulation of cloud scenarios.(CO4) 1
1. FALSE
 2. TRUE
- 1-i. A cloud accessing customer cannot blindly trust a cloud service provider for _____. (CO5) 1
1. Privacy
 2. Non privacy
- 1-j. Managed IT services are based on the concept of _____.(CO5) 1
1. Utility Computing
 2. Computing
2. Attempt all parts:-
- 2-a. Define cloud computing. (CO1) 2
- 2-b. What are cloud service models? (CO2) 2
- 2-c. Name the three major players in cloud based computing. (CO3) 2
- 2-d. What is email communication over the cloud? (CO4) 2
- 2-e. Mention the two basic need of Virtualization. (CO5) 2

SECTION B

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3. Answer any five of the following:-

- 3-a. Name the different vendors of cloud computing in current market. (CO1) 6
- 3-b. Explain the need of elastic computing. (CO1) 6
- 3-c. Explain the various services offered by IaaS. (CO2) 6
- 3-d. Differentiate between Monitoring as a Service and Communication as a Service.(CO2) 6
- 3-e. How does CloudSim work? (CO3) 6
- 3-f. How does CRM cloud work? (CO4) 6
- 3-g. Explain the different types of virtualization. (CO5) 6

SECTION C

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4. Answer any one of the following:-

- 4-a. Explain the concept of scalability of cloud computing in detail. (CO1) 10

- 4-b. Explain different types of clouds with suitable examples in detail. (CO1) 10
5. Answer any one of the following:-
- 5-a. Under what circumstances should you prefer to use IaaS over PaaS? Formulate it with an example. (CO2) 10
- 5-b. Explain the various Layered Cloud Architectural Development design for effective cloud computing environment. (CO2) 10
6. Answer any one of the following:-
- 6-a. Explain the different projects carried out by various companies using CloudSim. (CO3) 10
- 6-b. Is Dropbox a cloud service provider? Discuss in detail with suitable example. (CO3) 10
7. Answer any one of the following:-
- 7-a. Explain in detail the benefits of using calendars and schedules over cloud services. (CO4) 10
- 7-b. How cloud computing can be collaborated with project management? Describe in detail. (CO4) 10
8. Answer any one of the following:-
- 8-a. What is Virtual Machine Monitor (VMM)? Explain with suitable example. (CO5) 10
- 8-b. Differentiate between system VM and process VM with suitable diagram. (CO5) 10