

B.E Sem VII E.C.S R-2019 Nov-Dec 2023

11/24

Duration: 3hrs

[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.

- N.B. (1) Question no. 1 is compulsory.  
(2) Attempt any three from remaining five questions.

- Q1. 05  
a. Explain the NIST Cloud computing. 05  
b. Discuss cloud service models 05  
c. Considering an example of IT software developing company, explain benefits of virtualization for that company.  
d. KVM and XEN are two open source virtualization technology, differentiate them based on type of virtualization, type of environment to be used, design of kernel module, and support for para-virtualization. 05
- Q2. 10  
a. Explain open stack architecture in detail. 10  
b. Explain Software-as-a-Service (SaaS) with suitable example.
- Q3. 10  
a. Discuss classification or taxonomy of virtualization at different levels. 10  
b. What is Storage-as-a-service and collaboration-as-a-service? Explain in detail.
- Q4. 10  
a. What is the implementation level of Virtualization? 10  
b. Discuss the risk and challenges associate with cloud security.
- Q5. 10  
a. Explain architecture of Mobile Cloud Computing. What are the Benefits and challenges of Mobile Cloud computing? 10  
b. Discuss the role of Cloud Computing in Business and customer applications 20
- Q6. Write a note on  
1. Discuss Healthcare: ECG analysis in cloud.  
2. Cloud backup solution and features.  
3. Eucalyptus cloud.  
4. AAA model.

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