

End Semester Examinations - 2015-16 Even Semester - May 2016

14CS2025 IT Infrastructure and Management

Set A

Time : 3 hrs
Total Marks: 100

1. (i) Compare the advantage of using cloud computing over traditional computing and how the service models would be helpful for different organizations.(10)
(ii) Illustrate the use of availability patterns (10)
OR
2. (i) Do you think that the end user device availability, reliability and security are essential in the development environment of any company? Justify your answer with appropriate examples.(10)
(ii) How do you achieve virtualization security and performance (10)
3. (i) Formulate the measures to safeguard the IT infrastructure by listing the various types of attacks. (10)
(ii) Evaluate the use of performance pattern (10)
OR
4. (i) List out the rack design tips and datacenter availability and security (10)
(ii) Create a layout for the datacenter by keeping in mind that, the category of datacenter required based on the business need.(10)
5. (i) Illustrate the use of hot swapping, parity and ECC memory, and lock stepping in the server's performance. (10)
(ii) Mention the use of routing and the working of its protocols. Also compare IPV4 and IPV6 protocols (10)
OR
6. (i) Evaluate the use of disk controllers and RAID implementation in storage.(10)
(ii) How do you ensure the storage availability in case of any disaster in your datacenter? When the storage administrators prefer achieving the data and evaluate its advantages? (10)
7. (i) Evaluate the SPARK architecture and Mainframe (10)
(ii) You are the datacenter network administrator of Karunya University. How do you ensure the network availability and performance for highly scalable systems during the peak usage?(10)
OR
8. (i) Compare the traditional computation and virtualization. List out the various type of virtualization and what type of virtualization you would suggest for an organization, which concerned about the performance. (10)
(ii) How do you achieve virtualization security and performance (10)
9. (i) Illustrate the use of failover clustering. How it contributes to the availability of the operating system (10)
(ii) Compare the advantage of using VDI and thin clients instead of using traditional desktop environments (10)

Wishing you All the Best