Reg. No. : | | | | | | | | | | |

Question Paper Code: 49021

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2017

Sixth Semester

Computer Science and Engineering

14UCS902 - INFORMATION STORAGE MANAGEMENT

(Regulation 2014)

Duration: Three hours   Maximum: 100 Marks

Answer ALL Questions

PART A - (10 x 1 = 10 Marks)

1. Cache can be implemented as

    (a) Cache mirroring   (b) Either dedicated cache or global cache
    (c) Cache vaulting   (d) Idle flushing

2. Creating portable virtual compute systems called as

    (a) Hypervisor   (b) CPU   (c) Virtual machines   (d) Virtual network

3. Which is a FC switch function that enables the nodes within the fabric to be logically segmented into groups which can communicate with each other

    (a) Zoning   (b) SAN   (c) NAS   (d) CAS

4. A _____ is composed of a group of zones that can be activated and deactivated as a single entity in a fabric.

    (a) Zone set   (b) zoning   (c) Port zoning   (d) Mixed zoning

5. Which enables the full backup copy to be created offline without disrupting the I/O operation on the production volume

    (a) Full backup   (b) Cumulative backup
    (c) Synthetic full backup   (d) Incremental back up

6. Following is not stages of BC planning life cycle

   (a) Analyzing   (b) Designing and developing

   (c) Storage   (d) Training & testing

7. It refers to availability of a component to perform a desired operation

   (a) Authorization   (b) Performance

   (c) Capacity   (d) Accessibility

8. Which of the following cloud service model is the base layer of the cloud services stack?

   (a) SaaS   (b) PaaS   (c) NaaS   (d) IaaS

9. Which is the base layer of the cloud service stack?

   (a) Paas   (b) Iaas   (c) Virtualization   (d) Saas

10. _____ components that are monitored for accessibility, capacity, performance, security?

   (a) Hosts, Storage network, Storage   (b) Storage only

   (c) ILM   (d) iSCSI

PART - B (5 x 2 = 10 Marks)

11. Define virtualization.

12. Write the four FC Connectivity options.

13. What is remote replication and its technologies?

14. State the characteristics of cloud computing.

15. What are the primary services of security framework?

PART - C (5 x 16 = 80 Marks)

16. (a) (i) What is storage technology? Explain the evolution of storage technology with its architecture.   (8)

    (ii) What are data center elements and explain its key requirements.   (8)

Or

   (b) What are the components of an intelligent storage system & explain in detail.   (16)

2

49021

17. (a) Define storage area network. Explain in detail about the fibre channel SAN components and its connectivity. (16)

Or

(b) Explain in detail about components of an FCoE Network. (16)

18. (a) (i) Define the process of Replication. Explain in detail about local replication technologies. (8)

(ii) Explain in brief about the remote replication and its technologies. (8)

Or

(b) Explain all the technologies of remote replication and its approaches in detail.
. (16)

19. (a) Explain in detail about cloud deployment models. (16)

Or

(b) Discuss in detail about the cloud service models. (16)

20. (a) Explain about the storage security domains in detail. (16)

Or

(b) How to provide securing storage infrastructure in virtualized and cloud environment. (16)

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49021