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Question Paper Code: 49202

B.E. / B.Tech. DEGREE EXAMINATION, MAY 2018

Elective

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)

- Which is used for block level communication between servers and storage?
 - Direct attached storage
 - Internet protocol SAN
 - Storage area network
 - Network attached storage
- Cache is _____ memory.
 - External
 - semiconductor
 - internal
 - ROM
- A _____ is composed of a group of zones that can be activated and deactivated as a single entity in a fabric.
 - Zone set
 - zoning
 - Port zoning
 - Mixed zoning
- Which one of the following is an industry – standard TCP/IP – based protocol specifically designed for a backup in a NAS environment.
 - Serverless backup
 - NDMP 2-way
 - Server based backup
 - Network Data Management Protocol (NDMP)
- Following is not stages of BC planning life cycle
 - Analyzing
 - Designing and developing
 - Storage
 - Training & testing

6. The stored object is assigned a globally unique address, known as
- (a) Network address
 - (b) Port address
 - (c) Content address
 - (d) Storage address
7. Which of the following cloud service model is the base layer of the cloud services stack?
- (a) SaaS
 - (b) PaaS
 - (c) NaaS
 - (d) IaaS
8. It refers to availability of a component to perform a desired operation
- (a) Authorization
 - (b) Performance
 - (c) Capacity
 - (d) Accessibility
9. Which of the following method removes the traces of the deleted data?
- (a) Data shredding
 - (b) Data recovery
 - (c) Data Isolation
 - (d) Zoning
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 forced flushing.
12. Write the four FC Connectivity options.
13. Compare source based and target based data de-duplication.
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)

17. (a) Briefly explain about iSCSI with neat diagram. (16)

Or

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

18. (a) (i) Write the data deduplication implementation techniques. (8)

(ii) What is data archive and explain with an example. (8)

Or

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

19. (a) What are the cloud deployment models and explain it briefly with neat diagram. (16)

Or

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

20. (a) (i) List the storage management activities and explain them. (8)

(ii) Briefly explain Information Life cycle management with its implementation. (8)

Or

(b) (i) Discuss in detail about Information Life cycle Management (ILM). (8)

(ii) Write short notes on storage tiering and mention its types. (8)

