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Paper Id:

214562

Sub Code: NMCAE42

Roll No:

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MCA
(SEM V) THEORY EXAMINATION 2018-19
INFORMATION STORAGE & MANAGEMENT

Time: 3 Hours

Total Marks: 100

Note: 1. Attempt all Sections. If require any missing data; then choose suitably.

SECTION A

1. Attempt *all* questions in brief. 2 x10 = 20

- a. Differentiate between data and information.
- b. What are FC ports?
- c. What is soft zoning and hard zoning?
- d. Explain Hot Spares.
- e. How iSCSI session is established?
- f. Identify the key security measures at the network layer.
- g. What are the major factors that affect disk drive performance?
- h. What is Parity?
- i. State the storage security domains.
- j. What are the mechanisms by which the physical components communicate across the bus?

SECTION B

2. Attempt any *three* of the following: 10 x 3 = 30

- a. Explain the key characteristics of data center and key activities involves in managing the data center.
- b. Discuss the impact of random and sequential I/O in different RAID configurations.
- c. il.
- d. What is disaster recovery? Explain the importance of disaster recovery planning.
- e. What do you understand by key management metrics? Explain.

SECTION C

3. Attempt any *one* part of the following: 10 x 1= 10

- (a) Explain the various components involved in accounting disk service time and disk I/O controller utilization.
- (b) Explain how information is managed using Information Lifecycle. Briefly explain the characteristics and benefits of Information Lifecycle Management.

4. Attempt any *one*part of the following: 10 x 1 = 10

- (a) . Compare integrated and modular storage systems.
- (b) Explain the architecture of intelligent storage system in detail.

5. Attempt any *one* part of the following:

10 x 1 = 10

- (a) NAS performance? g
- (b) What do you mean by Fibre Channel Ports? How Fibre channel ports are configured for specific applications? Discuss various Fibre Channel topologies in detail.

6. Attempt any *one* part of the following:

10 x 1 = 10

- (a)
 - (i) Discuss the security concern in backup environment.
 - (ii) Explain the benefits of using a virtual tape library over a physical tape library.
- (b) Explain the following:
 - (i) Remote Business Continuity Techniques.
 - (ii) Virtualization Technologies.

7. Attempt any *one* part of the following:

10 x 1 = 10

- (a) What do you understand by Industry Management standards? Explain handling techniques.
- (b) e
difference between being reactive and proactive?