Printed pages: 02 **Sub Code: NMCAE42**

Paper Id: 214562 **Roll No:** | | | | | | | | | | |

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.
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?

(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)

difference between being reactive and proactive?