USN

Time: 3 hrs.

Max. Marks: 80

Note: *Answer any FIVE full questions, choosing ONE full question from each module.*

Module-1

1 a. Explain following key data centre elements with neat diagrams:
(i) Connectivity   (ii) Storage   **(08 Marks)**
b. Define RAID Array components and explain RAID techniques with neat diagrams. **(08 Marks)**

OR

2 a. Explain RAID 0 to RAID 6 levels with neat diagrams. **(10 Marks)**
b. Explain the components of intelligent storage systems with neat diagrams. **(06 Marks)**

Module-2

3 a. Explain Fibre Channel Connectivity Architecture with three basic Inter Connectivity options. **(08 Marks)**
b. Explain fibre channel protocol stack and addressing with neat diagrams. **(04 Marks)**
c. Define Zoning. Explain types of Zoning. **(04 Marks)**

OR

4 a. Explain two types of network based virtualization techniques in SAN with neat diagrams. **(08 Marks)**
b. Explain the following leveraging IP protocols with neat diagrams:
(i) iSCSI   (ii) FCIP   **(08 Marks)**

Module-3

5 a. Explain Business Continuity Planning Life Cycle with neat diagrams. **(08 Marks)**
b. Explain Data Deduplication and Implementation Scenario's with respect to neat diagrams. **(08 Marks)**

OR

6 a. With neat diagrams, explain types of Local Replication Technologies. **(08 Marks)**
b. Explain Three-Site Replication interms of Multihop and Multitarget Solutions with neat diagrams. **(08 Marks)**

Module-4

7 a. Explain Cloud service Models with neat diagrams. **(08 Marks)**
b. Explain cloud computing infrastructure layers with neat diagrams. **(08 Marks)**

OR

8 a. Explain the challenges of cloud computing interms of consumers and providers. **(06 Marks)**
b. Explain the cloud deployment models according to NIST with neat diagrams. **(10 Marks)**

Module-5

9 a. Explain any two storage security domains with neat diagrams. **(08 Marks)**
b. Explain FC-SAN Security Implementation in storage networking with neat diagrams. **(08 Marks)**

OR

10 a. Explain Information Lifecycle Management with changing values. **(06 Marks)**
b. Define storage tiering and explain types with neat diagrams. **(06 Marks)**
c. Explain storage infrastructure management challenges. **(04 Marks)**

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