C

Reg. No. :

Question Paper Code:59202

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

Elective

Computer Science and Engineering

15UCS902- INFORMATION STORAGE MANAGEMENT

(Regulation 2015)

Duration: Three hours   Maximum: 100 Marks

Answer ALL Questions

PART A - (5 x 1 = 5 Marks)

1. A Striped set with independent disk access and distributed parity is   CO1- R

    (a) Nested RAID   (b) RAID 4   (c) RAID 5   (d) RAID 6

2. In FC-SW transmission, frames are routed between source and   CO2 -R
    destination by
    (a) Fabric architecture   (b) Shared loop

    (c) Arbitrate operations   (d) Ring topology

3. In the cascade/multihop three-site replication, data flows from the source   CO3- R
    to the intermediate storage array, known as a

    (a) Push operation   (b) Bunker   (c) Cold operation   (d) Disaster

4. Cloud computing is also a good option when the cost of infrastructure   CO4- U
    and management is _____

    (a) Low   (b) High

    (c) Moderate   (d) None of the mentioned

5. Authentication at the Management Console belongs to   CO5- R

    (a) Zone A   (b) Zone B   (c) Zone C   (d) Zone D

PART – B (5 x 3= 15 Marks)

6. Summarize the challenges of storing and managing unstructured data.   CO1-U

7. Sketch the Multimode fiber and single-mode fiber.   CO2- Ana

8. Write the causes of Information Unavailability.   CO3-App

9. What are the essential Characteristics of Cloud Computing?   CO4-U

10. Mention some security concerns in adopting virtualization and cloud computing.

CO5-R

PART – C (5 x 16= 80 Marks)

11. (a) Describe key elements of Data center environment. CO1- U (16)

Or

(b) Explain in detail about the Components of an Intelligent Storage System. CO1-U (16)

12. (a) How to establish and manage connections between host and storage over IP based iSCSI? CO2-U (16)

Or

(b) Design a process for Object Storage and Retrieval in Object-Based Storage Devices. CO2-U (16)

13. (a) Write about the Architecture of backup recovery and the different backup recovery Topologies? CO3-U (16)

Or

(b) Demonstrate Local Replication Technologies. CO3-U (16)

14. (a) Construct cloud infrastructures based on Cloud Deployment Models. CO4-U (16)

Or

(b) Explain Cloud Challenges and migration considerations in detail. CO4-U (16)

15. (a) Compare the basic security implementations in FC SAN, NAS, and IP-SAN environments. CO5-Ana (16)

Or

(b) Discuss the Storage Infrastructure Management Activities. CO5-U (16)