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**Question Paper Code: 55Q06**

M.E. DEGREE EXAMINATION, NOV 2018

Elective

Computer Science and Engineering

15PCS506- INFORMATION STORAGE TECHNIQUES

(Regulation 2015)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART - A (5 x 1= 5 Marks)

1. Which is not a Key management activity? CO1- R  
(a) Monitoring      (b) Reporting      (c) Provisioning      (d) Optimizing
2. 32 bit bus transmit \_\_\_\_\_ bit of data. CO2- R  
(a) 16      (b) 32      (c) 64      (d) 122
3. Which of the following company manufactures FC HBA. CO3- R  
(a) Emulex      (b) Qlogic      (c) LSI      (d) All the above
4. Name the mechanism which provides the highest level of data protection. CO4- R  
(a) RAID 0      (b) RAID 1      (c) RAID 6      (d) RAID 0+1
5. How many security accounts per client is provided by Microsoft? CO5- R  
(a) 1      (b) Mixing      (c) Drying      (d) Floating

PART – B (5 x 3= 15 Marks)

6. What is Storage Array? CO1- U
7. Define RAID. CO2- U
8. Define the term LUN and LUN masking. CO3 -U
9. How does clustering help to minimize RTO? CO4- U
10. List out the Parameters Monitored. CO5- U

PART – C (5 x 16= 80 Marks)

11. (a) Discuss the challenges faced in data storage and data management. CO1-U (16)
- Or
- (b) Detail the Evolution of storage architecture. CO1-U (16)
12. (a) Explain Hardware and software components of the host environment. CO2- U (16)
- Or
- (b) Explain Performance Implications of Disk drive. CO2- U (16)
13. (a) Compared to a standard IP frame, what percentage of reduction can be realized in protocol overhead in an iSCSI configured to use jumbo frames with an MTU value of 9,000 bytes? CO3- App (16)
- Or
- (b) Illustrate the appropriateness of the different networked storage options for different application Environments. CO3- U (16)
14. (a) What is meant by data deduplication ? Explain various methods and implementation techniques in data deduplication? CO4- U (16)
- Or
- (b) Explain Backup and restoration process with diagrams. CO4- U (16)
15. (a) How security is achieved in virtualized and cloud environments. CO5- U (16)
- Or
- (b) Explain in detail about SAN security architecture. CO5- U (16)