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**Question Paper Code: 99221**

B.E./B.Tech. DEGREE EXAMINATION, NOV 2022

Elective

Computer Science and Engineering

19UCS921- Information Storage Management

(Régulations 2019)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (5 x 1 = 5 Marks)

1. Which of the following cloud concept is related to pooling and sharing of resources? CO1- U  
(a) Polymorphism    (b) Virtualization    (c) Abstraction    (d) None of the above
2. Which of the below is component of SAN. CO2- U  
(a) Ethernet switch    (b) Fibre Switch.    (c) Ethernet Card.    (d) None of the above
3. Backup of the source data can be created\_\_\_\_. CO3- U  
(a) On the same device    (b) On another device  
(c) At some other location    (d) All the above
4. \_\_\_\_\_uses one or more components of the host to perform and manage the replication operation CO4- U  
(a) Local replication    (b) remote replication  
(c) Host-based remote replication    (d) None of the Above
5. Storage management comprises of\_\_\_\_. CO5- U  
(a) SAN Management    (b) Data protection    (c) Disk operation    (d) All of the above

PART – B (5 x 3= 15 Marks)

6. Define data center elements CO1- U
7. Define file sharing in NAS. CO2- U
8. Define De-duplication. CO3- U
9. Define Information availability. CO4- U
10. Draw the diagram of Securing user access in a NAS environment? CO5- U

PART – C (5 x 16= 80 Marks)

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|-----|-----|---|--------|------|
| 11. | (a) | Explain RAID levels, implementations, techniques, and levels along with the impact of RAID on application | CO1- U | (16) |
|     |     | Or  |        |      |
|     | (b) | Describe the Evolution of storage architecture  | CO1- U | (16) |
| 12. | (a) | Describe NAS File sharing protocols and File level Virtualization   | CO2- U | (16) |
|     |     | Or  |        |      |
|     | (b) | Define Zoning. Discuss its types.   | CO2- U | (16) |
| 13. | (a) | Briefly explain information availability solutions in both virtualized and non-virtualized environments   | CO3- U | (16) |
|     |     | Or  |        |      |
|     | (b) | Explain Backup and Archive in both virtualized and non-virtualized environments                           | CO3- U | (16) |
| 14. | (a) | Illustrate various local replication Techniques   | CO4- U | (16) |
|     |     | Or  |        |      |
|     | (b) | Discuss about Remote replication technologies in virtualized environments                                 | CO4- U | (16) |
| 15. | (a) | Explain in detail about the SAN Security architecture   | CO5- U | (16) |
|     |     | Or  |        |      |
|     | (b) | Describe Storage Infrastructure Management Activities   | CO5- U | (16) |