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|--|---|----|-----|
| 14. Infer the functions of logical volume managers (LVMs). | 2 | K2 | CO2 |
| 15. Show the factors affecting NAS Performance. | 2 | K2 | CO3 |
| 16. Recall the data storage applications that could benefit from an IP SAN solution. | 2 | K1 | CO3 |
| 17. How does clustering help to minimize RTO? | 2 | K1 | CO4 |
| 18. Define BC planning life cycle. | 2 | K1 | CO4 |
| 19. Find the critical security attributes of information system. | 2 | K1 | CO5 |
| 20. What is the role of a metric in a storage infrastructure? | 2 | K1 | CO5 |
| 21. Interpret the role of Risk Triad. | 2 | K2 | CO6 |
| 22. List the uses of network virtualization. | 2 | K1 | CO6 |

PART - C (6 × 11 = 66 Marks)

Answer ALL Questions

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| 23. a) Explain about Data Center Infrastructure in detail with neat diagram. | 11 | K2 | CO1 |
| OR | | | |
| b) List the components of a storage system environment and discuss. | 11 | K2 | CO1 |
| 24. a) Analyze the various technologies involved in the development of Disk Drive Components. | 11 | K4 | CO2 |
| OR | | | |
| b) Consider a disk I/O system in which an I/O request arrives at the rate of 80 IOPs. The disk service times is 6ms. Examine the following
(i) Utilization of IO controller.
(ii) Total response time | 11 | K4 | CO2 |
| 25. a) Make use of CAS architecture for long-term archiving solutions and describe how CAS full fill the need. | 11 | K3 | CO3 |
| OR | | | |
| b) Identify and discuss the benefits of different networked storage options used for various application environment. | 11 | K3 | CO3 |
| 26. a) Analyze the functionality of backup /recovery architecture and the different topologies of a storage system. | 11 | K4 | CO4 |
| OR | | | |
| b) Compare and contrast the working principles of different RAID levels. | 11 | K4 | CO4 |
| 27. a) Choose a remote replication technology for providing disaster recovery and business continuity capabilities and discuss with an example. | 11 | K3 | CO5 |
| OR | | | |
| b) Apply Industry standards in monitoring and managing a data center for an educational institution. | 11 | K3 | CO5 |
| 28. a) Inspect how a block and file level virtualization techniques are used for managing storage infrastructure of an organization. | 11 | K4 | CO6 |
| OR | | | |
| b) Examine the functionality of SAN security architecture. | 11 | K4 | CO6 |