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Question Paper Code: 59202

B.E./B.Tech. DEGREE EXAMINATION, APRIL 2019

Elective

Information Technology

15UCS902 INFORMATION STORAGE MANAGEMENT

(Regulation 2015)

Duration: Three hours

Maximum: 100 Marks

Answer All Questions

PART A - (5x 1 = 5 Marks)

1. Redundant array, that is known as mirroring or shadowing is CO1- R
(a) RAID 0 (b) RAID 1 (c) RAID 2 (d) RAID 3
2. The two prominent protocols used to extend SAN storage using TCP/IP CO2- U
protocol.
(a) iSCSI & FCIP (b) iSCSI & FCoE (c) iSCSI & IP (d) FCIP & FCoE
3. This consists of the precautions taken so that the effects of a disaster will be CO3- R
minimized
(a) Data retrieval. (b) Disaster recovery
(c) Archive. (d) Replication.
4. Which cloud computing feature allows for server consolidation resulting in CO4- R
increased asset utilization and decreased data centre energy needs?
(a) Virtualization (b) Provisioning (c) Automation (d) Governance
5. _____ is a framework tool for managing cloud infrastructure CO5- R
(a) IBM Tivoli Service Automation Manager
(b) Windows Live Hotmail
(c) Google Service Automation Manager
(d) Microsoft Tivoli Service Automation Manager

PART – B (5 x 3= 15Marks)

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| 6. Define Intelligent Storage systems. | CO1- U |
| 7. Compare the topologies of FC-SAN, NAS and IP-SAN. | CO2- U |
| 8. Define continuous data replication. | CO3- U |
| 9. What are the advantages and disadvantages of Cloud Computing? | CO4- U |
| 10. What is meant by information security? | CO5- U |

PART – C (5 x 16= 80Marks)

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| 11. (a) Explain in detail about the core elements of Data Center environment with neat diagram. | CO1-Ana | (16) |
| Or | | |
| (b) Summarize the components of an intelligent storage system and explain in detail. | CO1 -Ana | (16) |
| 12. (a) Explain about File Channel Storage Area Network components, Connectivity and topologies in detail. | CO2 -U | (16) |
| Or | | |
| (b) (i) With the help of the diagram, discuss NAS components and its implementation. Also, state the factors that affect the NAS performance and availability. | CO2 -U | (8) |
| (ii) Discuss how a Content Addressed Storage solution fits into an Information Lifecycle Management Strategy. | CO2 -U | (8) |
| 13. (a) Explain Backup and Archive process in detail with suitable diagrams. | CO3- U | (16) |
| Or | | |
| (b) An organization is planning a data center migration. They can only afford a maximum of two hours downtime to complete the migration. Explain how local and remote replication technology can be used to meet the downtime requirements. | CO3- U | (16) |
| 14. (a) Explain the various cloud deployment models in detail. | CO4-U | (16) |
| Or | | |
| (b) Discuss about cloud migration and its challenges. | CO4 -U | (16) |

15. (a) Briefly explain about the information lifecycle management (ILM). CO5- U (16)

Or

(b) Discuss about the possible threats that occur in the application access and management access domains. Also describe the defensive mechanism in storage and management infrastructure. CO5- U (16)

