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Question Paper Code : 59202

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

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. 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. Which of the below is component of SAN. CO2 -R
(a) Ethernet switch (b) Fibre Switch (c) Ethernet Card (d) None of the above
3. This consists of the precautions taken so that the effects of a disaster will be minimized. CO3- R
(a) Data retrieval (b) Disaster recovery (c) Archive (d) Replication
4. Which model consists of the particular types of services that you can access on a cloud computing platform? CO4- U
(a) Service (b) Deployment (c) Application (d) None of the above
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

PART – B (5 x 3= 15 Marks)

6. Define Intelligent Storage systems. CO1-R
7. Compare the topologies of FC-SAN, NAS and IP-SAN. CO2- U
8. Define continuous data replication. CO3-R
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= 80 Marks)

11. (a) Explain in detail about the core elements of Data Center environment with neat diagram. CO1- U (16)
Or
(b) Explain RAID implementations, techniques and levels in detail. CO1-U (16)
12. (a) Explain about File Channel Storage Area Network components, Connectivity and topologies in detail. CO2-U (16)
Or
(b) Explain the benefits, components and implementations of File Sharing Technology using NAS in detail. CO2-U (16)
13. (a) Explain Backup and Archive process in detail with suitable diagrams. CO3-U (16)
Or
(b) Explain Remote replication technologies in virtualized and non-virtualized environments in detail. CO3-U (16)
14. (a) Explain the various cloud deployment models in detail. CO4-U (16)
Or
(b) Explain the Security and migration challenges in cloud computing in detail? CO4-U (16)
15. (a) Briefly explain about the information lifecycle management (ILM). CO5-Ana (16)
Or
(b) Discuss about the storage infrastructure monitoring and management in detail. CO5-U (16)