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Question Paper Code:UEG75

B.E./B.Tech. DEGREE EXAMINATION, APR/MAY 2025

Professional Elective

21ADVG75 –INFORMATION STORAGE AND MANAGEMENT

(Regulations 2021)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (5 x 20 = 100 Marks)

1. (a) (i) Explain about Storage infrastructure components. CO1- U (10)
(ii) Explain the role of storage controllers in storage infrastructure. CO1- U (10)
Or
(b) (i) What are the different phases of information life cycle model? CO1- U (10)
(ii) Explain the role of data classification in Information Life cycle Management. CO1- U (10)
2. (a) (i) Which components constitute the disk service time? Which component contributes the largest percentage of the disk service time in a random I/O operation? CO1- U (10)
(ii) Demonstrate about hot sparing. CO1- U (10)
Or
(b) (i) Summarize about mapping and operation on storage structure. CO1- U (10)
(ii) Explain the steps involved in provisioning a storage resource through the front-end. CO1- U (10)

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| 3. | (a) | (i) Explain about CAS briefly. | CO1- U | (10) |
| | | (ii) Explain briefly following | CO1- U | (10) |
| | | a) Node port, | | |
| | | b) Storage array, | | |
| | | c) SAN | | |
| Or | | | | |
| | (b) | (i) What is NAS? Explain how the performance of NAS can be affected if sender and receiver window is not synchronized? | CO1- U | (10) |
| | | (ii) Explain different interfaces in FC. | CO1- U | (10) |
| 4. | (a) | (i) Summarize block level storage virtualization. | CO1- U | (10) |
| | | (ii) Explain the relationship between SNMP agents and network management systems (NMS). | CO1- U | (10) |
| Or | | | | |
| | (b) | (i) What are various forms of virtualization? Explain each in brief. | CO1- U | (10) |
| | | (ii) Explain in detail about VLANs. | CO1- U | (10) |
| 5. | (a) | (i) Write brief notes on cloud vocabulary. | CO1- U | (10) |
| | | (ii) Write brief notes on risk in cloud computing. | CO1- U | (10) |
| Or | | | | |
| | (b) | (i) Write brief notes on cloud computing evolution. | CO1- U | (10) |
| | | (ii) Give a brief note on cloud architecture. | CO1- U | (10) |