Reg. No. : ☐☐☐☐☐☐☐☐☐☐☐☐

Question Paper Code: 59021

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2017

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. _____is the process of assigning storage resources to hosts based on capacity, availability, and performance requirements of applications running on the host.

    (a) RAID   (b) Storage provisioning   (c) Cache   (d) Disk

2. Which one of the following is an industry – standard TCP/IP – based protocol specifically designed for a backup in a NAS environment.

    (a) Serverless backup   (b) NDMP 2-way
    (c) Server based backup   (d) Network Data Management Protocol (NDMP)

3. Following is not stages of BC planning life cycle

    (a) Analyzing   (b) Designing and developing
    (c) Storage   (d) Training & testing

4. Which type of private cloud is hosted external to an organization and is managed by a third party organization.

    (a) Externally hosted private cloud   (b) on-premise private cloud
    (c) community cloud   (d) hybrid cloud

5. What is the name of technique used for establishing a hierarchy of different storage types or tiers?

    (a) LUN   (b) Information Lifecycle Management
    (c) Storage Infrastructure Management   (d) Storage Tiering

PART - B (5 x 3 = 15 Marks)

6. List out the factors that have been contributed to the growth of digital data.

7. What are the components of NAS?

8. Compare source based and target based data de-duplication.

9. State the benefits in cloud computing.

10. Write the four security goals in information security framework.

PART - C (5 x 16 = 80 Marks)

11. (a) (i)   What are the methods in RAID implementation?   (3)

    (ii) Draw a diagram for RAID array components.   (3)

    (iii) Explain in detail about RAID 0, RAID 1, RAID 3levels with neat diagram. (10)

Or

(b) Summarize the components of an intelligent storage system and explain in detail.
                                                                                       (16)

12. (a) (i)   Define Zoning & explain types of zoning in detail.   (8)

    (ii) Draw the diagram for FCIP Protocol stack.   (4)

    (iii) Discuss about NAS I/O Operation.   (4)

Or

(b) Briefly explain about the fibre channel SAN architecture.   (16)

13. (a) Analyze the implementation methods on backup in NAS environments.   (16)

Or

(b) Categorize all the technologies of remote replication and its approaches in detail.
                                                                                       (16)

14. (a) What are the cloud deployment models and explain it briefly with neat diagram.
                                                                                       (16)

Or

(b) (i) Mention all the cloud adoption considerations in detail.   (6)

    (ii) Explain in detail about the cloud service models.   (10)

15. (a) Discuss in detail about storage security domains.   (16)

Or

(b) Elaborate in detail about storage infrastructure management and its activities.   (16)

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