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Code : 15CS63A

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Number

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VI Semester Diploma Examination, April/May-2018

## INFORMATION STORAGE AND MANAGEMENT

Time : 3 Hours ]

[ Max. Marks : 100

- Note :** (i) Answer any **six** questions from Part – A. Each carries **5** marks.  
(ii) Answer any **seven** full questions from Part – B. Each carries **10** marks.

### PART – A

Answer any **six** questions.

1. Explain key characteristics of a data centre.

2. Discuss logical block addressing.

3. Explain the two different methods to implement RAID.

4. Write a note on hot spares.

5. What is meant by Read-hit and Read-miss ? Explain.

6. Explain types of flushing.

7. Explain different Fabric services.

8. Explain different file-sharing protocols in NAS.

9. Write a note on Virtual Tape Library.

BETA CONSOLE!



6 × 5 = 30  
Diploma - [All Branches]  
Beta Console Education 5



5  
Diploma Question Papers [2015-19]  
Beta Console Education 5

**PART – B**

Answer any **seven** full questions. Each carries **10** marks.

$$7 \times 10 = 70$$

$$2 \times 5 = 10$$

10. (a) Mention the key challenges in managing information.  
(b) Write a note on physical disk structure.

11. Explain the components of disk drive performance.

**10**

12. Explain with diagram RAID 5 and RAID 6 levels.

**10**

13. What is Intelligent Storage Systems (ISS) ? Explain the different components of an ISS with a neat diagram.

**BETA CONSOLE! 10**

14. Explain the read and write operations with cache.

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15. Write note on :

$$2 \times 5 = 10$$

- (i) LAN-Based backup topology  
(ii) Mesh Topology

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16. Explain the three basic FC connectivity.

**10**

17. Explain the different components of FC SAN.

**10**

18. Explain File-level virtualization.

**10**

19. Discuss Backup and Restore operations.

**10**