

Roll No

IT - 502 rgpvonline.com**B.E. V Semester**

Examination, December 2013

Information Storage and Management*Time : Three Hours**Maximum Marks : 70*

- Note:** 1. Attempt one question from each unit.
 2. Each unit have equal marks.
 3. Assume Data/value if required.

UNIT - I

1. a) What is Data categorization? Why data categorization is required? 7
 b) Discuss various phases of information life cycle model. 7

OR

2. a) What is data centre? What are the requirements for the design of a secure data center? 7
 b) Explain briefly the evolution of storage management. 7

UNIT - II

3. Differentiate between the following: 14
 a) Integrated Vs modular arrays
 b) Volume manager Vs file system.

OR

4. Consider a disk I/O system in which an I/O request arrives at the rate of 80IOPS. The disk service time is 6ms compute the following: 14
 i) Utilization of I/O controller

- ii) Total response time
 iii) Average queue size
 iv) Total time spent by a request in a queue.

UNIT - III

5. a) Write down Advantages and disadvantages of DAS. 7
 b) Explain physical interface and line encoding in FC. 7

OR

6. a) Explain different types of FC ports. 7
 b) Explain briefly the following: 7
 i) Node port ii) Storage arrays
 iii) Hub iv) Switch
 v) SAN

UNIT - IV

7. a) Explain SNIA storage virtualization taxonomy. 7
 b) Explain block level storage virtualization. 7

OR

8. a) List and explain different technologies for backup. 7
 b) Explain the following: 7
 i) Disaster
 ii) Operational backup
 iii) Archival

UNIT - V

9. a) What are the different parameters for monitoring? 7
 b) Write short note on cloud vocabulary. 7

OR

10. a) Explain Architectural framework of cloud computing. 7
 b) Explain different deployment model of cloud. 7
