

Roll No .....

**IT-502 (GS)****B.E. V Semester**

Examination, December 2017

**Grading System (GS)****Information Storage and Management***Time : Three Hours**Maximum Marks : 70*

- Note :** i) Answer any five questions.  
 ii) Each question carries equal marks.  
 iii) Assume suitable data if missing.

1. a) Define the term data center. What are key requirements for data center elements? 7  
 b) Discuss structured and unstructured data? What are the challenges of storing and managing unstructured data? 7
2. a) What are policies required by business for effective information management also discuss challenges in managing information? 7  
 b) Discuss the impact of Random and Sequential I/O in different RAID configuration. 7
3. a) What is parity? Write the advantage of parity. Also, discuss hot sparing. 7  
 b) What do you understand by Zoned-bit recording and Logical block addressing? Explain in brief. 7
4. a) Discuss DAS and its limitation, security and advantage? Also, give the significance of gateway NAS. 7  
 b) Explain storage migration using block-level storage virtualization. 7

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5. a) How does flow control work in an FC network? Explain with example. 7  
 b) Write the challenges phasing during the storage virtualization. 7
6. a) What are backup topologies? Why security concern is important in the backup environment. 7  
 b) Describe the benefit of using a virtual tape library over physical tape library? 7
7. a) Define the term Cloud computing? What are the characteristics of cloud computing? 7  
 b) What is need of virtualization? Define server, application and presentation virtualization. 7
8. Write short note on. 14  
 a) JBOD  
 b) SNMP  
 c) Cloud Deployment Models

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