Sem VIII I.T.

storage N/W Mgmt & retrival CBGS

18/5/16

QP Code : 721201

(3 Hours) **| Total Marks : 80**

N.B. : (1) Question number **1** is **compulsory**.
Out of remaining question solve any **three**
(2) Draw figures wherever necessary .
(3) Assume suitable data wherever necessary.

1. (a) Consider a disk I/O system in which an I/O request arrives at a rate of 100 I/O s per second. The disk service time is Rs= 8ms, Calculate the measures of disk performance **10**
   (a) Utilization of 1/0 controller (U)
   (b) Total response time (R)
   (c) Average Queue size
   (d) Total time spent by a request in the queue
   Considering the same disk I/O system and calculate the above measures of the disk performance if the disk service time is halved i.e. R_s=4ms.

   (b) Explain ILM and its benefits. How ILM can be implemented as a strategy for hospital managementsystem. **10**

2. (a) Explain FC SAN topologies and FC protocol Stack **10**
   (b) Explain IP storage standards.

3. (a) Explain the Architecture and implementation related limitations of storage virtualization. **10**

   (b) Differentiate between symmetric and asymmetric storage virtualization and block level and file level storage virtualization. **10**

4. (a) What is Information Availability and Information unavailability? Explain BC planning life cycle. **10**
   (b) Explain Network data management protocol (NDMP). **10**

5 (a) Define Information system. List out the components of an information systems. What is the difference between general purpose and specialized information systems? **10**
   (b) Explain the Boolean based matching process in detail. **10**

6. Write short notes on: (Any **four**) **20**
   (a) Intelligent Storage system (b) Zoned bit recording
   (c) FC ports (d) Comparison of FC SAN, iSCSI, NAS.
   (e) Backup Operations
   (f) Document surrogates (g) Document term Matrices
