

BE12-R4: INFORMATION STORAGE AND MANAGEMENT

NOTE:

1. Answer question 1 and any FOUR from questions 2 to 7.
2. Parts of the same question should be answered together and in the same sequence.

Time: 3 Hours

Total Marks: 100

1.
 - a) What is Data Proliferation? What are the problems caused by data proliferation?
 - b) Which are elements of Data center? Explain key requirement of Data center elements.
 - c) Compare classification of storage array in terms of modular and monolithic.
 - d) Compare Internal Vs. External Direct Attached Storage (DAS).
 - e) Explain Business Continuity (BC) planning lifecycle.
 - f) Explain in brief intelligent disk subsystem.
 - g) What is the difference between NAS & SAN?

(7x4)

2.
 - a) List down the activities performed in storage management.
 - b) Explain characteristics of Information Lifecycle Management (ILM).
 - c) Explain features & benefits of Content Addressable Storage.

(6+6+6)

3.
 - a) Briefly explain RAID levels 1 through 4.
 - b) Why is RAID 1 not a substitute for a backup?
 - c) What are the capabilities of High-end Storage Systems?

(6+6+6)

4.
 - a) Explain following connectivity protocols in brief.
 - i) NFS
 - ii) CIFS
 - iii) FTP
 - b) Briefly discuss the evolution of Storage Technology and Architecture. Also, explain NAS design components.

(9+9)

5.
 - a) Discuss SAN components in detail.
 - b) Explain in brief following industry management standards.
 - i) SMI-S
 - ii) CIM

(9+9)

6.
 - a) Explain the issues related to security and performance of FCIP.
 - b) Explore Core/Edge fabric with its benefits and limitations.
 - c) Explain factors affecting NAS performance.

(6+6+6)

7.
 - a) What are the differences between RAID and Hardware RAID?
 - b) Explain Modes of Remote Replication.
 - c) What is IP SAN? Explain Fiber Channel Architecture with respect to its protocol stack.

(6+6+6)