**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) The amount of data stored by applications is growing at a phenomenal rate. What exactly it describes?

b) Give one example to elucidate why application-specific, time-varying specification of data requirements is useful.

c) Explain complete functioning of context addressable storage.

d) What are different logical components of I/O channel?

e) How can you implement a Disk Cache in Disk Subsystems?

f) What are different types of Types of Backup Operations?

g) Discuss SAN Backup Implemented in Tape Libraries.

**(7x4)**

**2.**

a) What is the idea of Virtual Tape? Explain component architecture of intelligent disk subsystem.

b) Differentiate between Local Business Continuity Techniques and Remote Business Continuity Techniques.

**(9+9)**

**3.**

a) Explain concept of requirement data with infrastructure analysis.

b) Describe new storage connectivity options that extend the I/O channel.

**(10+8)**

**4.**

a) Explain in detail RAID reliability and availability advantages.

b) What are various key requirements for data center elements?

**(10+8)**

**5.**

a) Explain performance scaling advantages of SANs.

b) Draw the structure of Fibre Channel Networks.

**(12+6)**

**6.**

a) List requirements for establishing a data centre.

b) How do you see five pillar of data management technology?

c) Explain SNMP Configuration, Policy Management and Task Automation.

**(4+6+8)**

**7.**

a) What are the different business processes involved in managing an event? What data do you need to capture and from what sources?

b) Explain variations in Internet caching.

**(8+10)**