MASTER OF TECHNOLOGY (INFORMATION TECHNOLOGY) (CBCS - 2015 COURSE)
M. Tech. (Information Technology) Sem-IV :SUMMER- 2022
SUBJECT : SELF-STUDY PAPER-II:INFORMATION STORAGE & MANAGEMENT

Day : Wednesday
Date : 15-06-2022   **S-14586-2022**

Time : 10:00 AM-01:00 PM
Max. Marks : 60

N.B.

1) All questions are **COMPULSORY**.
2) Figures to the **RIGHT** indicate **FULL** marks.
3) Answer to both the sections should be written in **SEPARATE** answer book.

SECTION – I

Q.1 What are core elements of data center? What are the typical challenges the storage **(10)** management team may face?

OR

Draw Information Lifecycle Management (ILM) diagram. What are different ILM management strategies must be included?

Q.2 What is a RAID array? What are components of RAID array? Explain with suitable **(10)** example.

OR

Explain following RAID levels
   i) Striping
   ii) Mirroring
   iii) Parity

Q.3 What are benefits of Network Attached Storage (NAS) over general purpose server? **(10)** Also describe components of NAS.

OR

List some of data storage application that could benefit from Internet Protocol Storage Area Network (IPSAN) solution. What is major performance consideration for Fiber Channel Over IP (FCIP)?

SECTION – II

Q.4 How are following storage infrastructure parameters are monitored ? **(10)**
   i) Performance
   ii) Security

OR

Differentiate between Business Continuity (BC) and Disaster Recovery (DR).

Q.5 What are different storage security domains? Explain the process of securing the **(10)** application access domain. What are available threats and control to secure application access domain?

OR

What are different types of storage virtualization? Also write challenges in implementing storage virtualization?

Q.6 What are security challenges on cloud data? Enlist defense mechanism employed for **(10)** security of cloud data.

OR

What are different types of cloud computing service model? Explain with suitable diagram.

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