**FIRST SEMESTER EXAMINATION, 2022 – 23**
**DATA CENTRE MANAGEMENT**

**Duration: 3:00 hrs**                                                              **Max Marks: 100**

*Note: - Attempt all questions. All Questions carry equal marks. In case of any ambiguity or missing data, the same may be assumed and state the assumption made in the answer.*

| Q 1. | Answer any four parts of the following. | 5x4=20 |
|---|---|---|
| | a)  What is the data center? Explain the facilities of data center. | |
| | b) Explain the Goals and Role of Data Centers in service provider environment. | |
| | c) What do you understand by client server model explain with diagram. | |
| | d)  What is the multitier architecture in data center management? | |
| | e) What are the requirements of Data center? | |
| | f) What New Strategies Will You Use When There Is A Skill Shortage, As A Data Center Manager? | |
| Q 2. | Answer any four parts of the following. | 5x4=20 |
| | a) Can You Describe The Key Roles of Data Center Team? | |
| | b)  What are the Guidelines for planning of Data Center? | |
| | c) How do you manage the security of the data center? | |
| | d) How important is geographical location when choosing a data center? | |
| | e) What is the difference between server farm and data center? | |
| | f) What do you understand by data center topology? | |
| Q 3. | Answer any two parts of the following. | 10x2= 20 |
| | a) What is the Network Infrastructure in a data center? How do you manage storage requirements? | |
| | b) How have you dealt with backups? Explain the Point of distribution and ISP network Infrastructure in details. | |
| | c) What is the Load balancing? Explain the types of load balancing? What is the Advantage of load balancing in data center? | |
| Q 4. | Answer any two parts of the following. | 10x2= 20 |
| | a) What do you understand by Data Centre Security? Explain the Vulnerabilities and common attacks in Data center. | |
| | b) What is the Firewall? How we can define Security Policies in firewall. Explain the Data Centre Security framework with diagram. | |
| | c) What is the maintenance of Data center? What are the difference between physical security and logical security in data center? | |
| Q 5. | Answer any two parts of the following. | 10x2= 20 |
| | a) What are the roles and responsibilities of server administrator?  Explain the system administration work automation. | |
| | b) What do you mean by Architecture Aggregation layer? Explain the Access layer, Storage layer and Data center Transport Layer work in data center. | |
| | c) short notes on i)  Virtual Private network   ii) IBM Data Centre Technology | |

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