**POORNIMA UNIVERSITY, JAIPUR**

**END SEMESTER EXAMINATION, APRIL 2023**

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|  | **3BT6151** | Roll No. | Total Printed Pages: 2 |
| **3BT6151** |  |
| B. Tech. III Year VI-Semester (Main/Back) End Semester Examination, April 2023  **(CC)** | |
| **BCC06108 : Storage and Data Center** | | | |

# Time: **3** Hours. Total Marks: **60**

Min. Passing Marks: **21**

Attempt **five** questions selecting one question from each Unit. There is internal choice from Unit I to Unit V. Marks of each question or its parts are indicated against each question / parts. Draw neat sketches wherever necessary to illustrate the answer. Assume missing data suitably (if any) and clearly indicate the same in the answer.

Use of following supporting material is permitted during examination for this subject.

# **1.--------------------------Nil--------------------** **2.------------------Nil-----------------------**

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|  |  | **UNIT-I (CO1)** | **Marks** | **Bloom Level** |
| **Q.1** | **(a)** | What is information lifecycle management (ILM)? What are the phases of the information lifecycle? | **(6)** | **Remember** |
|  |  |  |  |  |
|  | **(b)** | Describe the core elements of Data Center. | **(6)** | **Remember and Apply** |
|  |  |  |  |  |
|  |  | **OR** |  |  |
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| **Q.2** | **(a)** | How to manage a data center and what are the key characteristics of it? Describe. | **(6)** | **Remember** |
|  |  |  |  |  |
|  | **(b)** | What are the different software components are used for host? Explain each of them briefly. | **(6)** | **Remember** |
|  |  |  |  |  |
|  |  | **UNIT-II (CO2)** |  |  |
|  |  |  |  |  |
| **Q.3** | **(a)** | What are the different types RAID implementation methods? Explain RAID techniques. | **(6)** | **Understand and Apply** |
|  |  |  |  |  |
|  | **(b)** | What are the different components of NAS? Explain briefly with suitable diagram. | **(6)** | **Remember** |
|  |  |  |  |  |
|  |  | **OR** |  |  |
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| **Q.4** | **(a)** | What is NAS? Write down the benefits of NAS. | **(6)** | **Apply** |
|  |  |  |  |  |
|  | **(b)** | Explain different types of DAS. What does SAN stand for? How does it work? | **(6)** | **Apply** |
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|  |  | **UNIT-III (CO3)** |  |  |
|  |  |  |  |  |
| **Q.5** | **(a)** | What are the characteristics of outstanding design of Data Centre? | **(6)** | **Apply** |
|  |  |  |  |  |
|  | **(b)** | What are the guidelines of planning a data centre? | **(6)** | **Apply** |
|  |  |  |  |  |
|  |  | **OR** |  |  |
|  |  |  |  |  |
| **Q.6** | **(a)** | How to design and plan data centre against vandalism? | **(6)** | **Apply** |
|  |  |  |  |  |
|  | **(b)** | Describe the architecture of ISP network. | **(6)** | **Apply** |
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|  |  | **UNIT-IV (CO4)** |  |  |
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| **Q.7** | **(a)** | What are the different types of server farms available? | **(6)** | **Understand** |
|  |  |  |  |  |
|  | **(b)** | What are the different types of data centre services? Explain each briefly. | **(6)** | **Apply** |
|  |  |  |  |  |
|  |  | **OR** |  |  |
|  |  |  |  |  |
| **Q.8** | **(a)** | What are the different types of data centre topologies? Explain each. | **(6)** | **Remember** |
|  |  |  |  |  |
|  | **(b)** | Describe IP Infrastructure Services in data center? | **(6)** | **Remember** |
|  |  |  |  |  |
|  |  | **UNIT V (CO5)** |  |  |
|  |  |  |  |  |
| **Q.9** | **(a)** | What are business continuance infrastructure services for storage and data center? | **(6)** | **Apply** |
|  |  |  |  |  |
|  | **(b)** | What are the need for redundancy and information availability for storage and data center? | **(6)** | **Apply** |
|  |  |  |  |  |
|  |  | **OR** |  |  |
|  |  |  |  |  |
| **Q.10** | **(a)** | What are the BC terminologies, BC planning life cycle, BC technology solutions in storage and data center? | **(6)** | **Remember** |
|  |  |  |  |  |
|  | **(b)** | What are backup and recovery considerations, backup technologies in storage and data center? | **(6)** | **Apply** |