Name: **Enrolment No:**	UPES UNIVERSITY WITH A PURPOSE

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
Supplementary Examination, December 2020

Course: Data Centre Transformation **Semester: VI**
Program: B. Tech. (CS+IT Infra) **Time 03 hrs.**
Course Code: CSIT3010 **Max. Marks: 100**

Instructions: Attempt all questions.

SECTION A

S. No.		Marks	CO
Q 1	List out the benefits of Cloud Computing.	**5**	**CO1**
Q 2	Discuss the properties of Green Data Centre.	**5**	**CO1**
Q 3	List out the key elements required for Data Centre.	**5**	**CO2**
Q 4	List out the reasons for Data Centre under stress.	**5**	**CO2**
Q 5	List out the benefits of liquid cooling in DC.	**5**	**CO3**
Q 6	Name different Site Infrastructure Tier Standards (topology) for DC.	**5**	**CO3**

SECTION B

Q 1	Define Integration of Energy and System Management of Data Centre in detail.	**10**	**CO2**
Q 2	List out and explain the areas to be consider while optimizing the Data Centre.	**10**	**CO2**
Q 3	Define systematic approach to transform Datacenter into an Optimized and Energy Efficient Datacenter?	**10**	**CO3**
Q 4	Explain different types of Cloud Services and Access Models.	**10**	**CO4**
Q 5	How IT equipment cooling is done in Data Centre? Define with the help of example	**10**	**CO4**

SECTION-C

Q 1	Draw the diagram and explain the process of A Liquid cooling at Rack level B Liquid cooling at Server level. **OR** How the Power Management managed at Hardware side? Also, explain the Management Function of IBM Devices in Data Centre.	**20**	**CO5**