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

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
End Semester Examination, December 2019

Course: Data Centre Transformation I **Semester: VII**
Program: B. Tech. (CS+IT Infra) **Time 03 hrs.**
Course Code: CSIB 434 **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	Explain Power upgrade Strategy of Data Centre.	**5**	**CO3**

SECTION B

Q 5	Define Integration of Energy and System Management of Data Centre in detail.	**10**	**CO2**
Q 6	List out and explain the areas to be consider while optimizing the Data Centre.	**10**	**CO2**
Q 7	Define Localizing Cooling along with the Power Categorization of Data Centre.	**10**	**CO3**
Q 8	Review the Operational efficiency of Data Centre. **OR** Explain different types of Cloud Services and Access Models.	**10**	**CO4**

SECTION-C

Q 9	Discuss in detail about: a. Basic Site Infrastructure b. Redundant Site Infrastructure Capacity Component c. Concurrently Maintainable Site Infrastructure d. Fault Tolerance Site Infrastructure	**20**	**CO4**
Q10	Explain the process of IT equipment in Data Centre along with the suitable Hardware Solution example. **OR** How the Power Management managed at Hardware side? Also, explain the Management Function of IBM Devices in Data Centre.	**20**	**CO5**