

Name:	
Enrolment No:	

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
End Semester Examination, December 2018

Course: Data Centre Transformation I (CSIB 434)	Semester: VII
Programme: B.Tech. CS+IFM	
Time: 03 hrs.	Max. Marks: 100
Instructions: Attempt all questions	

SECTION A


S. No.	Question	Marks	CO
Q 1	Identify IOT Data Centre challenges.	5	CO1
Q 2	Recognize the benefits of Cloud Computing and explain.	5	CO2
Q 3	Discuss the areas to be consider while optimizing the Data Centre.	5	CO3
Q 4	Justify the Power Upgrade Strategy of Data Centre?	5	CO4

SECTION B

Q 5	Discuss Localizing Cooling along with the Power Categorization of Data Centre.	10	CO2
Q 6	Review the factors, which affect the Operational efficiency of Data Centre?	10	CO3
Q 7	Describe Integration of Energy and System Management of Data Centre in detail.	10	CO2
Q 9	Identify how IOT plays a major role in designing of Data Centre. List out the reasons for Data Centre under stress. OR Sketch different types of Cloud Services and Access Models	10	CO4

SECTION-C

Q 10	Analyze in detail about: a. Basic Site Infrastructure b. Redundant Site Infrastructure Capacity Component c. Concurrently Maintainable Site Infrastructure d. Fault Tolerance Site Infrastructure	20	CO3
Q 11	Discuss Consolidation and Virtualization of Data Centre. Also explain the process of Virtualization and Optimization of the Storage. OR How the Power Management is done at Hardware side? Also explain the Management Function of IBM Devices in Data Centre	20	CO5

Name:			
Enrolment No:			
UNIVERSITY OF PETROLEUM AND ENERGY STUDIES			
End Semester Examination, December 2018			
Course: Data Centre Transformation I (CSIB 434)		Semester: VII	
Programme: B.Tech. CS+IFM		Max. Marks: 100	
Time: 03 hrs.			
Instructions: Attempt all questions			
SECTION A			
S. No.		Marks	CO
Q 1	Justify, IOT plays a major role in designing of Data Centre?	5	CO1
Q 2	Point out the reasons for Data Centre under stress.	5	CO2
Q 3	Discover the concept of Green Data Centre?	5	CO3
Q 4	Summarize/Review the factors driving the need of Data Centre Transformation.	5	CO4
SECTION B			
Q 5	Categories and explain the areas to be consider while optimizing the Data Centre. OR Discuss Localizing Cooling along with the Power Categorization of Data Centre	10	CO2
Q 6	Analyze the processes that govern daily operations of effective integration of Data Centre in daily business.	10	CO3
Q 7	Express, how can we improve the Operational efficiency of Data Centre?	10	CO3
Q 9	Review the detailed description of electrical infrastructure of DC with the help of diagram.	10	CO4
SECTION-C			
Q 10	Define Consolidation and Virtualization of Data Centre. Also explain the process of Virtualization and Optimization of the Storage OR Identify how IOT plays a major role in designing of Data Centre. List out the reasons for Data Centre under stress?	15	CO4
Q 11	Discuss the importance cooling at the Data Centre? How the process of cooling optimization	15	CO5

	is done at Data Centre? Define all the 7 steps of it		
--	--	--	--