

Roll No: -----



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, December 2017

Program/course: B.Tech. CS+IFM
Subject: Data Centre Transformation I
Code : CSIB 434
No. of page/s: 1

Semester – VII
Max. Marks : 100
Duration : 3 Hrs

SECTION A

4*5=20

1. Define IOT Data Centre challenges.
2. List out the benefits of Cloud Computing.
3. List out the key elements required for Data Centre.
4. Explain Power Upgrade Strategy of Data Centre.

SECTION B

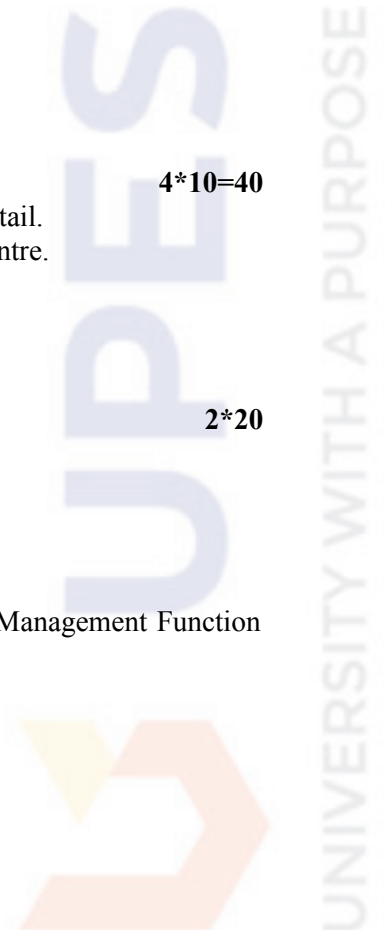
4*10=40

5. Define Integration of Energy and System Management of Data Centre in detail.
6. Define Localizing Cooling along with the Power Categorization of Data Centre.
7. Define the factors which affect the Operational efficiency of Data Centre?
8. Explain different types of Cloud Services and Access Models.

SECTION C

2*20

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
10. How the Power Management is done at Hardware side? Also explain the Management Function of IBM Devices in Data Centre.



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SECTION A

5*4=20

1. How IOT plays a major role in designing of Data Centre.
2. List out the reasons for Data Centre under stress.
3. What do you understand by Green Data Centre?
4. Summarize/Review the factors driving the need of Data Centre Transformation.

SECTION B

4*10=40

5. List out and explain the areas to be consider while optimizing the Data Centre.
6. Define the processes that govern daily operations of effective integration of Data Centre in daily business.
7. How can we improve the Operational efficiency of Data Centre?
8. Review the detailed description of electrical infrastructure of DC with the help of diagram.

SECTION C

2*20

9. Define Consolidation and Virtualization of Data Centre. Also explain the process of Virtualization and Optimization of the Storage.
10. What is the importance cooling at the Data Centre? How the process of cooling optimization is done at Data Centre? Define all the 7 steps of it.



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