UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, December 2017

Program: CCVT
Subject (Course): Introduction to virtualization and Cloud Computing
Course Code   : CSIB 274
No. of page/s: 01

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

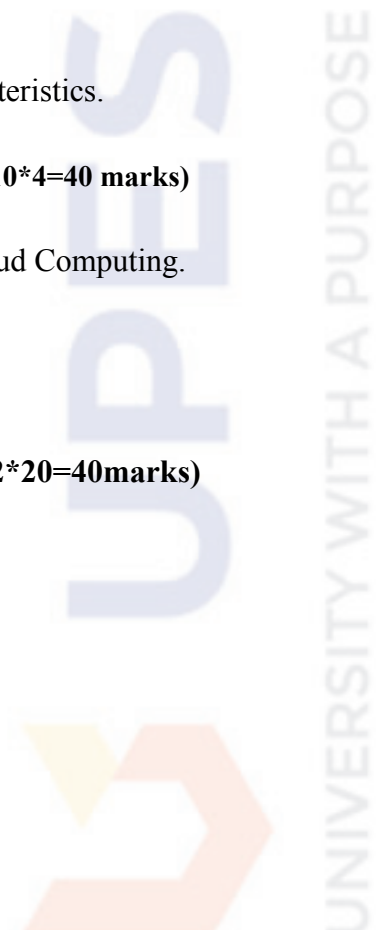**A) Attempt all question   (Limited Words-50 words)**   **(4*5=20 marks)**

1) What are the major distributed computing technologies that led to the cloud computing.
2) What is the major revolution introduced by Web 2.0?
3) What is Xen? Discuss its elements of virtualization.
4) Define Workload on the context of cloud computing and their characteristics.

B) **Attempt all question   (Words limit 150 words max)**   **(10*4=40 marks)**

5)   What are the suitable and the non-suitable load in the context of Cloud Computing.
6)   Explain Hypervisor-Reference Architecture.
7) Briefly summarize the challenges still open in the Cloud Computing.
8) Explain the Services offer by a Cloud.

C) Attempt any two questions   **(2*20=40marks)**

9)   Detail description of the Taxonomy of Cloud.
10) Discuss
    a) Hardware -assisted Virtualization
    b) Full Virtualization
    c) Paravirtualization
    d) Partial Virtualization
11) Explain the several types of cloud and with their suitable examples.

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A) Attempt all question   (Limited Words-50 words)   (4*5=20 marks)

1) What is the innovative characteristics of Cloud Computing?
2) Provide a brief characterization of a distributed system.
3) Explain workload and their characteristics in context of cloud computing.
4) What are the Pros and Cons of Virtualization.

B) **Attempt all question   (Words limit 150 words max)   (10*4=40 marks)**

5) What are the Suitable and Non-Suitable workload explain the them briefly.
6) Explain the Architecture of the Machine Reference Model.
7) Explain the Hybrid Cloud with Suitable Example.
8) Explain the IaaS, PaaS, SaaS.

C) Attempt any two questions   (2*20=40marks)

9) Discuss the Hyper-V and discuss its use in Cloud Computing
10) Explain the detail discussion in the economics of the cloud.
11) Explain storage virtualization, network Virtualization, desktop Virtualization.