UPES

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

Programme: **B. Tech. CSE Cloud CCVT**   Semester –   VI
Course Name: Cloud Deployment Model   Max. Marks   : 100
Course Code: CSVT 3002   Duration   : 3 Hrs
No. of page/s: 2

Section A

Q1. How storage virtualization helps creating a free form globally accessible and scalable storage facility. Discuss a suitable example as your choice.   [7.5 marks]

Q2. Why virtualization is needed in the self managed, private cloud compute and storage infrastructure? Give a detailed illustration answer with suitable example as a case.   [7.5 marks]

Q3. Explain the benefits and complete procedure of Auto scaling in compute infrastructure offered by AWS.   [7.5 marks]

Q4.   Explain the various authentication mechanisms which can be applied for the secure access in Linux and windows machines.   [7.5 marks]

Section B

Q5. Explain and discuss any three of the following –   [15 marks]
   (i)   Citrix Zen Desktop
   (ii)   VMware VCloud Director
   (iii)   AWS EC2
   (iv)   Openstack Horizon

Q6. (a) Discuss the technology underneath the virtual desktop.   [5 marks]

(b) What are the various standards for IO connectivity and data interchange.   [6 marks]

(c) Give a detailed illustration of any VDI technology vendor implementation.   [4 marks]

Q7. (a) Define the workload in multiple parameters.   [5 marks]

(b) Discuss Elastic Load Balancer (ELB) offered by AWS in details.   [6 marks]

(c) What types of load balancers can be used with AWS.   [4 marks]

Or

Q8. The marketing department at a midsize firm is expanding. New hires are being added to the department and they are given network access to the department's files. IT has given marketing a networked drive on the LAN, but it keeps reaching capacity every third week. Current capacity is 500 gigabytes (and growing), with hundreds of files. Users are complaining about LAN response times and capacity.

(a) As the IT manager, what could you recommend to improve the situation?   [9 marks]

(b) How different availability zones, if possible can be utilized for optimal performance?

[6 marks]

Section C

Q9. Explain the logical architecture of Openstack in details.   [25 marks]

Or

Q10. Explain the Citrix Server architecture in details..   [25 marks]