

Roll No: -----



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, December 2017

Program : B. Tech. CSE (CCVT)
Subject (Course): Cloud Computing Architecture
Course Code : CCVT 3001
No. of page/s: 1

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

Section A

[4 x 5 = 20]

- Q1. Explain virtual machine.
- Q2. How para virtualization is different from full virtualization?
- Q3. Express your opinion about the role of Virtual Machine Monitor in consolidating the resources.
- Q4. Discuss cloud taxonomy along with a neat diagram.

Section B

[4 x 10 = 40]

- Q5. In IBM CCRA diagram what layer the components divided into Operational Support Services (OSS) and Business Support Services (BSS), explain with examples.
- Q6. List and explain the various functions identified in NIST CCRA.
- Q7. Write short notes on
- Cloud Computing Services
 - Cloud Scalability
 - Cloud elasticity
 - Cloud provisioning

- Q8. Explain the service management at cloud provider with reference to NIST CCRA.

Section C

[2 x 20 = 40]

- Q10. Differentiate the NIST CCRA with IBM CCRA.
- Q11. Explain all the 12 tasks in the 5 phases of the cloud adoption life cycle as defined in IBM CCRA 4.0.
- Or
- Q12. Explain the various types of cloud deployment models.

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Section A

[4 x 5 = 20]

- Q1. Explain the role of platform database middleware.
- Q2. How bare metal virtualization is better than host assisted virtualization.
- Q3. How Virtual Machine Monitor does helps consolidate the hardware resources.
- Q4. Diagrammatic representation of all the 12 tasks in the 5 phases of the cloud adoption life cycle as defined in IBM CCRA 4.0.

Section B

[4 x 10 = 40]

- Q5. Identify the various infrastructure components of classic and virtualized data center.
- Q6. List and explain the various functions identified in NIST CCRA.
- Q7. Explain the Platform as a Service model in detail.
- Q8. Explain the service management at cloud provider with reference to NIST CCRA.

Section C

[2 x 20 = 40]

- Q10. What is the difference between the NIST and IBM CCRA 2.0 about the service delivery models explain with example?
 - Q11. Detailed diagram of cloud taxonomy with reference to the delivery models.
- Or
- Q12. Explain the various types of cloud deployment models.