

Name:

Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, December 2018

Programme Name: CSE with specialization in BAO

Semester : VII

Course Name : BAO and Cloud

Time : 03 Hrs.

Course Code : CSIB 452

Max. Marks: 100

Nos. of page(s) : 2

Instructions :

SECTION A

S. No.		Marks	CO
Q 1	Describe Cloudbursting.	4	CO1
Q 2	Compare Cloud and Grid Computing.	4	CO3
Q 3	Establish the relation between Time Sharing System and Virtualization.	4	CO2
Q 4	Write down a short note on 'Ring Levels on x86 Processors'.	4	CO4
Q 5	Describe about the software and applications, which are appropriate to move into the cloud?	4	CO1

SECTION B

Q 5	What are the types of Virtualization? Briefly describe each of them.	10	CO2
Q 6	a. Classify Hypervisors. Write down about Hypervisors layer in reference to a Virtual Machine with proper architectural representation.	10	CO1
Q 7	a. How Virtualization triggers can be applied on Critical Business Applications? b. Briefly discuss about the transition tools for Virtualization?	10	CO3
Q 8	What is Cloud Workload? Discuss about the effectiveness of Cloud Workload from the perspective of Business Analytics? OR What are the most common challenges faced by a user when moving an application from a system running an OS to another system running a different OS?	10	CO4

SECTION-C

Q 9	a. Describe Public, Private and Hybrid Cloud. Write down the pros and cons of each architecture. b. Elaborate IaaS, PaaS and SaaS with their architecture and advantages.	20	CO1 CO3
Q 10	a. Justify the statement: "Cloud analytics can help organizations in Business Analysis." b. Describe Cost Flexibility in Business Analytics?	20	CO2 CO4

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| <p>c. Write down a short note about Business Scalability.
d. What is Context Driven Variability and Ecosystem connectivity?</p> | | |
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OR

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| <p>a. Discuss about the impacts of Masked Complexity and Ecosystem Connectivity on Business Analytics.
b. Write down short note on the followings:
i) Web Services Description Language
ii) Service Oriented Architecture
iii) Dynamic Provisioning of Resources</p> | |
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SECTION A

S. No.	Question	Marks	CO
Q 1	Explain security management in terms of Cloud Computing.	4	CO1
Q 2	Mention the Reliability and Availability of Cloud Computing.	4	CO3
Q 3	What are the advantages of VLAN?	4	CO2
Q 4	Discuss the use of analytics, which helps organization to gain competitive advantage?	4	CO4
Q 5	Explain the Common storage of PaaS Architecture.	4	CO1

SECTION B

Q 5	a. Explain Fault Tolerant system with the characteristics. b. Describe System Resilience and the risks associated with it.	10	CO3
Q 6	a. Briefly demonstrate the overlapping aspect of Virtualization and Cloud? b. How does Desktop Virtualization work?	10	CO1
Q 7	Classify the types of Storage Virtualization in perspective of Business Analytics.	10	CO2
Q 8	What is Masked Complexity and Context Driven Variability?	10	CO4
	OR Discuss about the system integrators in Cloud Computing? How a user can be gained from utility computing? For a transport in cloud how a user can secure his data?	10	CO4

SECTION-C

Q 9	a. How do you establish and accomplish a cloud instance as opposed to one of your current VMs? b. Write down the advantages of using NAS in a virtualized environment. c. Describe Time-sharing systems.	20	CO2 CO3
Q 10	a. Discuss about the common cloud analytics deployment models. b. Write down the operations of Analytics. c. Explain the three major layers of Xen Server.	20	CO4 CO1

OR

Q 10	a. Discuss the steps of reducing Initial Investment, Capital Expenditure and improving Industrial Specialization in reference to Market and Enterprises with the Drawbacks or Benefits as applicable. b. Describe Cloud Eco-System. c. What is Community Cloud and Hybrid Cloud?	20	CO4 CO1
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