

Roll No: -----



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, December 2017

Program :	B.Tech.CSE + BAO	Semester – VII
Subject (Course):	BAO and CLOUD	Max. Marks: 100
Course Code :	CSIB 455	Duration : 3 Hrs
No. of page/s:		

Section A

Attempt all questions. Each carries equal marks. (5x4 = 20 marks)

1. Which technology is used to set up a secure channel? Explain its features.
2. Explain Application Virtualization and its benefits.
3. Compare the area and relative savings of Virtualization and Cloud.
4. “The impact of virtualization can be classified under two major headings: Cost and Manageability”. Throw light on this statement and discuss your views.

Section B

Attempt all questions in this Section. Each carries equal marks (10x4 = 40 marks)

5. a) What does cloud computing change for the provider? For the administrator? Explain [5]
b) Explain types of Virtualization based on the extent of hardware emulation. [5]
6. A cloud is composed of eight major components. Explain each component.
7. “Desktop Virtualization process involves creating a logical abstraction or a virtual image of the desktop and placing it on a centralized physical server.” Discuss this statement [6+4] throwing light on how Desktop Virtualization works, the benefits of Desktop Virtualization
8. Explain architectures for Public, Private and hybrid cloud and also pros & cons of each.

OR

Define Grid, Cloud and Distributed computing as well as state their pros and cons [6+4]

Section C

Attempt all questions in this Section. Each carries equal marks (20x2 = 40 marks)

9. Write short notes on (do any four) : [5x4=20]
 - a) Mission-Critical workloads with examples
 - b) Functions of the data center
 - c) VLAN and its advantages
 - d) Comparison of traditional IT and Virtualization
 - e) Types of Hypervisors
 - f) Hardware Assisted Virtualization
10. a) Explain cloud service models, their characteristics and examples for each type.
b) “IBM SmartCloud offers cloud analytics at different levels.” Discuss.

OR

- a) Design the Factor matrix for Private Cloud.
- b) Explain how cloud-based analytics can help the businesses in different ways?

Roll No: -----



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, December 2017

Program :	B.Tech.CSE + BAO	Semester – VII
Subject (Course):	BAO and CLOUD	Max. Marks: 100
Course Code :	CSIB 455	Duration : 3 Hrs
No. of page/s:		

Section A

Attempt all questions. Each carries equal marks. (5x4 = 20 marks)

1. Define Virtualization, and explain its benefits in three categories
2. Define IaaS, explain its features and examples
3. Define Grid computing and its evolution
4. State the cloud deployment decision factors and explain any one.

Section B

Attempt all questions in this Section. Each carries equal marks (10x4 = 40 marks)

5. Which type of Virtualization provides streamlined migration of user applications from one OS Platform to another? Explain its features and benefits.
6. Define Public and Private Cloud. Explain the advantages & disadvantages of each [6+4]
7. A cloud is composed of eight major components. Explain each component.
8. Explain architectures for Public, Private and hybrid cloud; also pros & cons of each [6+4]

OR

Explain the five steps required for preparation for virtualization

Section C

Attempt all questions in this Section. Each carries equal marks (20x2 = 40 marks)

9. Write short notes on (**do any four**) : **[5x4=20]**
 - a) Hybrid cloud - advantages and disadvantages.
 - b) Cloudbursting
 - c) Triggers for virtualization
 - d) Use of cloud analytics for competitive advantage
 - e) Layers in Xen Server
 - f) Types of storage virtualization
10.
 - a) Explain cloud service models, their characteristics and examples for each type.
 - b) “IBM cloud-based analytics can help organizations drive their business.” Discuss.

OR

- a) Design the Factor matrix for Public Cloud.
- b) Explain cloud deployment attributes in a tabular form for Private, Hosted Private and Public Community Clouds.