Name:

Q 8.

**Enrolment No:** 



**CO3** 

**10** 

## UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

**End Semester Examination, Dec-2021** 

Course: Cloud Computing Semester: V

Program: BCA Time : 03 hrs.

Course Code: CSBC3016P Max. Marks: 100

Instructions: Attempt all questions. Assume any missing data, draw diagrams wherever applicable, provide

	SECTION A		
~ <b>.</b>	(Scan and upload) (5Q X	4M = 20	
S. No.		Marks	COs
Q 1.	Illustrate four major components of a physical Server with examples.	4	CO1
Q 2.	Explain SAN.	4	CO1
Q 3.	Discuss the importance of VPN.	4	CO2
Q 4.	Contrast SaaS and PaaS.	4	CO2
Q 5.	What is the role of hypervisors in virtualization technology?	4	CO3
	SECTION B		
	(Scan and upload) (4Q X	10M =40	Marks
Q 6.	Describe in detail "Benefits of Desktop Virtualization". How can be it useful in organizations like UPES? [Hint: UPES Computer Laboratories].	10	CO1
	Virtual Machine  A1  Operating System  Operating System  Software equivalent of the h/w layer	10	CO2

Illustrate the different types of virtualization technology with it significance?

Q 9.	Compare virtualization with cloud technology. Is hybrid cloud technology preferable for UPES (Yes/No)? Analyze and justify your views.	10	CO4
	OR		
	Discuss and elaborate on the cons of the cloud service model, if deployed for UPES IT services.		CO4
	SECTION C (Scan and upload) (2Q X	20M =40	) Marks)
Q 10.	You are an IBM representative and deputed as a System Analyst at UPES for reviewing UPES Data Centre and IT services. How will you plan to implement virtualization technology and migration from physical to VM? Which criteria will be the most important for you to decide what workload should be moved to the cloud?	20	CO3
Q 11.	A cloudburst took place on one night at Uttarakhand State Data Centre. The State Data Centre was severely damaged due to that disaster. You as a System Architect of Uttarakhand State Data Centre, discuss your action plan and strategies. How will you recover from such disasters, what are the precautions you have taken earlier, what are your disaster recovery strategies etc? Discuss and elaborate on an optimum solution with the implementation of virtualization and cloud technology.	20	CO4
	OR		
	How will you optimize a set of servers that serve critical functions in UPES and Servers that constantly runs at a higher utilization about 95% of all the time and using which appropriate technology? Suggest which virtualization technology will you prefer for UPES Data Centre and why? Review various types of virtualization and hypervisors. [Hint: Para, Full, Native]		CO4