Name:

Enrolment No:



Semester: VII

Time 03 hrs.

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, December 2019

Course: Cloud Performance Tuning
Program: B. Tech (CSE +CCVT)

Course Code: CSIB491 Max. Marks: 100

	SECTION A		
S. No.		Marks	
Q 1	Discuss the Brute force method, for analyzing and identify the bottleneck in the process.	4	CO1
Q 2	Define term Load balancing and state its significance in the cloud performance tuning.	4	
Q 3	Write the steps for hosting a VM and giving access to guest, with one example.	4	CO3
Q 4	Define WebSphere and it significance with example	4 CO4	
Q 5	Discuss the role of real time Scheduling in operating system tuning.	4	CO2
	SECTION B	l	
Q 6	Discuss the role of resource provisioning and monitoring in cloud performance tuning.	10	CO4
Q 7	Explain the role of NUMA architecture.	10	CO3
Q 8	How to manage memory in VM, discuss with one suitable example	10	CO3
Q 9	Demonstrate the importance of Application Server Tuning. Or Discuss the role of Kernel I/O in operating system tuning.	10	CO2
	SECTION-C		
Q 10	Notes on a) Brute force Method b) CRM c) Amdahl's Law	(7.5+7. 5+5)	CO1
Q 11	Let a program has 40 percent of its code enhanced (so $fE=0.4$) to run 2.3 times faster (sofI = 2.3). What is the overall system speedup S? OR Let a program has a portion fE of its code enhanced to run 4 times faster (so $fI=4$), to yield a system speedup 3.3 times faster (so $S=3.3$). What is the fraction enhanced (fE)	20	CO4