Name:

Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES End Semester Examination, May 2022

Course: Cloud Application Development Program: B.Tech CS-CCVT Course Code: CSVT3006

Semester: VI Time: 03 hrs. Max. Marks: 100

	SECTION A			
(5Qx4M=20Marks)				
S. No.		Marks	CO	
Q 1	What is parallelism? How parallelism can be achieved in distributed computing? Explain.	4	CO1	
Q 2	What are the different ways for building Aneka clouds? Explain.	4	CO2	
Q 3	What is concurrent computing? Discuss this concept using a sample task computing scenario.	4	CO3	
Q 4	Draw the labelled program structure of MPI.	4	CO4	
Q 5	Discuss the use of Aneka cloud platform in multiplayer online gaming applications.	4	CO5	
	SECTION B			
	(4Qx10M= 40 Marks)			
Q 6	Discuss different architectural styles for distributing computing in detail.	10	CO1	
Q 7	Discuss and describe the anatomy of the Aneka container with the labelled diagram.	10	CO2	
Q 8	How multiple tasks can be computed using Aneka cloud platform? Discuss the task based programming model of Aneka cloud platform. OR	10	СО3	
Q 9	Differentiate between Object model and Parameter sweep model. Discuss the prototype of workflow system of how dependent tasks can be handled using Aneka cloud platform with the help labelled diagram.	10	CO4	
	SECTION-C			
	(2Qx20M=40 Marks)			
Q 11	What are the different phases of Aneka thread life cycle? In what ways the thread life cycle of Aneka threads differs from the local threads.	20	CO3	

	OR		
	What is MapReduce programming model? Represent the computation workflow of this model using some real world use case and scenario.		CO4
Q 12	Discuss the application of Aneka cloud platform in social networking and health care domain. Draw labelled diagrams of some real world use cases and scenarios related to these domains.	20	CO5