Name:	
Enrolment No:	

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

Course: Design and Development of Cloud Applications **Semester: 6th**
Program: B.TECH-CSE-DEVOPS and BIGDATA **Time: 03 hrs.**
Course Code: CSVT3010P **Max. Marks: 100**

Instructions:
Attempt all questions in Section A
Section B have one optional choice in question no 9
Section C have one optional choice in question no 11

SECTION A
(5Qx4M=20Marks)

S. No.		Marks	CO
Q 1	List the main components of cloud computing service model (PaaS).	4	CO1
Q 2	Summarize the benefits and drawbacks of using "Software as a Service".	4	CO2
Q 3	Differentiate blob storage, table storage.	4	CO3
Q 4	Outline the main services offered by Google Cloud Service.	4	CO4
Q5	Outline functionality of software prototyping.	4	CO5

SECTION B
(4Qx10M= 40 Marks)

Q 6	Explain about Cloud Object Storage operation with justified examples.	10	CO1
Q 7	Explain MVC architecture model and docker with suitable example.	10	CO2
Q 8	Explain the various distributed database design for effective cloud computing environment.	10	CO3
Q 9	Explain significance of Agile development for cloud application. (Justify)	10	CO4
	OR		
	Discuss difference between Kafka and Java Messaging Service (JMS).	10	CO5

SECTION-C
(2Qx20M=40 Marks)

Q 10	Design and illustrate a mobile-service model for Health Monitoring Application. (Justify with suitable scenario)	20	CO5

	Design a security model for web-service using Open Standard authentication also mention the function of TLS/SSL protocol.	**20**	**CO 5**
Q 11	**OR**		
	Describe, how concurrency lock issues achieved in Cloud computing platform? (Justify)	**20**	**CO 3**