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

Course: System Monitoring **Semester: VIII**
Program: B. Tech CSE DevOps **Time : 03 hrs.**
Course Code: CSDV4006 **Max. Marks: 100**

Instructions: Please draw diagrams and write code wherever applicable.

SECTION A
(5Qx4M=20Marks)

S. No.		Marks	CO

Q 1	"Customer is trying to access an app and get 401 error. Thus customer request cannot be processed." This scenario corresponds to affecting which of KPI Metrics.
	   a. Availability
	   b. Reliability
	   c. Security
	   d. Response Time
		4	CO1

Q 2	Monitoring of hardware used for serving applications is known as.
	   a. Log Monitoring
	   b. Infrastructure Monitoring
	   c. End User Monitoring
	   d. Application Monitoring
		4	CO4

Q 3	Explain about the different types of System Monitoring in brief.	4	CO1
Q 4	Draw the high level diagram of APM.	4	CO2
Q 5	Describe Synthetic Transaction Monitoring.	4	CO2

SECTION B
(4Qx10M= 40 Marks)

Q 6	Explain what is application monitoring. Describe the monitoring components and monitoring metrics on which application performance monitoring focuses.	10	CO4
Q 7	Define the Network Operations Center. List the roles and responsibilities of NOC in DevOps world. Describe the telemetry and metrics used in monitoring. OR Describe any monitoring tool in detail like EC2, Kibana, ELK Stack, GrayLog etc.	10	CO1
Q 8	Differentiate the agent vs agentless monitoring, reactive vs proactive monitoring, and cloud vs on premise monitoring.	10	CO3

Q 9	Describe end user monitoring along with its different types.	10	CO2
SECTION-C **(2Qx20M=40 Marks)**			
Q 10	Define the log monitoring and its objectives. Differentiate between log monitoring and log analysis. Explain various techniques around log analysis. List the various tools available for log monitoring. OR Illustrate application Monitoring case study in detail with relevant diagrams.	20	CO4
Q 11	Explain what is infrastructure monitoring along with high-level flow of infrastructure monitoring. Explain time-series databases for infrastructure monitoring with examples.	20	CO3