UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
Online End Semester Examination, May 2021
Course: System Monitoring   Semester: VIII
Program: B. Tech. CSE DevOps/Big Data   Time 03 hrs.
Course Code: CSDV 4002   Max. Marks: 100

SECTION A
1. **Each Question will carry 5 Marks**
2. **Instruction: Complete the statement / Select the correct answer(s)**

S. No.	Question	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	CO3
Q2	Which of the following types of monitoring is used to ensure site availability from customer end. a. Log Monitoring b. Infrastructure Monitoring c. End User Monitoring d. Application Monitoring	CO3
Q3	Which of the following types of monitoring looks after the encrypted session. a. s b. Network Monitoring c. Log Monitoring d. Application Monitoring	CO4
Q4	Which of the monitoring suites offers a SAAS based solution. a. On-Premise Monitoring b. Cloud Monitoring c. Hybrid Monitoring d. Pay as per usage model	CO4
Q5	Developers typically use APM tools to track UX metrics like a. Net Promoter Score, task success rate and network throughput b. User retention, usability and release velocity c. Pupil dilation, heart rate and runtime d. Error rate, user satisfaction and usability	CO2
Q6	Monitoring of hardware used for serving applications is known as. a. Log Monitoring b. Infrastructure Monitoring c. End User Monitoring d. Application Monitoring	CO4

SECTION B
1. **Each question will carry 10 marks**
2. **Instruction: Write short / brief notes**

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.	**CO4**
Q 8	Explain what is application monitoring. Describe the monitoring components and monitoring metrics on which application performance monitoring focuses. OR Differentiate between APM and Application monitoring in detail. Explain dependency monitoring. List out tools available for application monitoring.	**CO1**
Q 9	Differentiate the agent vs agentless monitoring, reactive vs proactive monitoring, cloud vs on premise monitoring.	**CO2**
Q 10	Explain what is infrastructure monitoring along with high-level flow of infrastructure monitoring. Explain time-series databases for infrastructure monitoring with examples.	**CO3**
Q 11	Explain the visualization of monitoring data. Describe how to set up alerts and alert triage process.	**CO2**
Section C 1. **Each Question carries 20 Marks.** 2. **Instruction: Write long answer.**		
Q12	Explain what is end user monitoring. Classify the types of end user monitoring. Identify various available tools for end user monitoring. OR 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.	**CO1**