UPES
End Semester Examination, May 2024

Course: System Monitoring   **Semester: VI**
Program: B.Tech CSE (DevOps)   **Time   : 03 hrs.**
Course Code: CSDV 3013   **Max. Marks: 100**

Instructions: There are two Sections. Attempt all sections.

SECTION A
(5Qx4M=20Marks)

S. No.		Marks	CO
Q1.	Define the terms Monitoring and Alerting.	4M	CO1
Q2.	Compare between Bursty and Cyclic patterns.	4M	CO2
Q3.	Explain the term Synthetic Transaction Monitoring using examples.	4M	CO2
Q4.	Contrast between Proactive and Reactive Monitoring	4M	CO3
Q5.	Elaborate on the best practices of Log Analysis.	4M	CO3

SECTION B
(4Qx10M= 40 Marks)

Q6.	Using a severity matrix explain the possible classification of events into bins.	10M	CO3
Q7.	Compare the terms Metric, Monitoring and Monitor.	10M	CO4
Q8.	Using a diagram highlight the facts of continuous monitoring	10M	CO4
Q9.	With a neat diagram show the interactions within a monitoring system. **OR** "Traffic troughs correlate with high values of response time on extreme percentiles despite no performance degradation" Comment	10M	CO1

SECTION-C
(2Qx20M=40 Marks)

Q10.	Explain the terms with respect to metrics: Data Collection Mode; Data Source; Number of Inputs per Data Point; Type of Quantity.	20M	CO5
Q11.	Elaborate on the common time series patterns and explain what each pattern indicates with the help of diagrams. **OR** With the help of a diagram represent an alarm in the form of a binary decision diagram and explain alarm function.	20M	CO2