BACHELOR OF TECHNOLOGY (CBCS) (2020 COURSE)
B.Tech.Sem - VII COMPUTER SCIENCE & ENGINEERING : SUMMER : 2024
SUBJECT: MACHINE LEARNING

Day : Wednesday
Date : 08/05/2024

S-24341-2024

Time : 02:30 PM-05:30 PM
Max. Marks : 60

N.B.:

1) All questions are Compulsory.
2) Figures to the right indicate full marks.
3) Assume suitable data wherever necessary.
4) draw neat labeled diagrams wherever necessary.

Q.1	Define Outliers. How outliers are determined in data sets, explain with help of examples.	**(10)**
	OR	
Q.1	Define Data Formats in Machine Learning. Explain data formats available in Machine Learning.	**(10)**
Q.2	What are criterions of parameters for choosing machine learning technique. Explain it with help of examples.	**(10)**
	OR	
Q.2	Explain tabular difference between Supervised vs Semi Supervised vs Unsupervised learning technique	**(10)**
Q.3	Explain issues faced in classification and regression in detail.	**(10)**
	OR	
Q.3	What is regression. Explain types of regression.	**(10)**
Q.4	Define Bayes Theorem. Elaborate Naïve Bayes Classifier working with example.	**(10)**
	OR	
Q.4	Define Support vector machine. Explain how margin is computed and optimal hyperplane is decided?	**(10)**
Q.5	What is K mean clustering? Explain with example.	**(10)**
	OR	
Q.5	List and explain various applications of Unsupervised Learning.	**(10)**
Q.6	Write short not on following method. **i)** Data Streams **ii)** Active Learning	**(10)**
	OR	
Q.6	Differentiate between Deep Learning and Reinforcement Learning.	**(10)**

* * * * *

08052-e-coe-mumbai