## **BHARATI VIDYAPEETH'S INSTITUTE OF COMPUTER APPLICATIONS & MANAGEMENT** NEW DELHI-63.

## ANSWER SHEET FOR SURPRISE TESTS (AI & ML)

**MCA-III SEMESTER** 

Surprise Test-II

Name of the Students:

Enrol. No.:

Date:

Max Marks: 30 Correct Answer: +1 Incorrect Answer: -1

1.	The categories in which Machine learning approaches can be traditionally categorized are:
	A. Supervised Learning
	B. Unsupervised Learning
	C. Reinforcement Learning
	D. All of the above
2.	Which machine learning algorithms can be used with labeled data?
	A. Regression Algorithms
	B. Clustering Algorithms
	C. Association Algorithms
	D. All of the above
3.	Overfitting is a type of modelling error which results in the failure to predict future
	observations effectively or fit additional data in the existing model. Yes/No?
	A. Yes
	B. No
	C. May be
	D. Can't Say
4.	is the scenario when the model fails to decipher the underlying trend in the input
	data.
	A. Overfitting
	B. Underfitting
	C. Both A and B
	D. None of the above
5.	The unsupervised learning problems can be grouped as
	A. Clustering
	B. Association
	C. Both A and B
(	D. None of the above
6.	Which of the following is true for the coefficient of correlation?
	A. The coefficient of correlation is not dependent on the change of scale
	D. The coefficient of correlation is not dependent on the change of origin
	change of origin
	D None of the above
7	The slope of the regression line of V on X is also referred to as the
7.	A Regression coefficient of X on Y
	B The correlation coefficient of X on Y
	C. Regression coefficient of Y on X
	D. Correlation coefficient of Y on X.
8.	Which of the given plots is suitable for testing the linear relationship between a dependent

and independent variable?
A. Barchart
B. Scatter plot
C. Histograms
D. All of the above.
Which of the following statements is true about the arithmetic mean of two regression
coefficients?
A. It is less than the correlation coefficient
D. It is equal to the correlation coefficient
D It is greater than the correlation coefficient
Which of the following statements is true about the regression line?
A A regression line is also known as the line of the average relationship
B. A regression line is also known as the estimating equation
C. A regression line is also known as the prediction equation
D. All of the above
Which machine learning algorithms can be used with unlabeled data?
A. Regression Algorithms
B. Clustering Algorithms
C. Association Algorithms
D. All of the above
Which of the following works with neural networks?
A. Artificial Intelligence
B. Deep Learning
C. Both A and B
D. None of the above
We have a data-set where we are predicting number of people who have more than \$1000 in their bank account. Consider a data-set with 200
observations i.e. n=200
n=200 Prediction=NO Prediction = YES
Actual = NO 60 10
Actual = YES 5 125
from the above matrix
A. Out of 200 cases, our classification model predicted "YES" 135 times and "NO"
65 times.
B. Out of 200 cases, our classification model predicted "YES" 125 times and "NO" 65
umes.
C. Out of 200 cases, our classification model predicted TES 155 times and 100 5
D Out of 200 cases our classification model predicted "VES" 135 times and "NO" 60
times
For the below confusion matrix, what is the count of True Negatives? Considering we want
to classify 5
C C 70/N
Not 5 53272 1307
5 1077 4344
A 53272
B 1077
D, 10/7
C. 1307