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		18CSE363J - M	ACHINE LEARNING			
		(For the candidates admitted during t	the academic year 2018-2019 to 2021-202	2)		
No	te:	ė .				
	i. Pa	art - A should be answered in OMR sheet with all invigilator at the end of 40 minutes. art - B and Part - C should be answered in OMR sheet with a sheet		be ha	ınded o	ver t
		e: 3 Hours		Max.	Marks	: 100
		Part - A (20 × 1 Marks =	= 20 Marks)	Mai	rks BL	CC
		Answer All Ques			2:	
	1.	machine learning techn	iques helps in detecting the outliers in	1	1	1
		data. (A) Classification (C) Anomaly detection	(B) Clustering (D) Regression			
	2.	Find S algorithm ignores examples. (A) Negative	(B) Positive	1	1	1
		(C) Both	(D) Neutral			
	3.	Another name for an output attribute.		1	1	1
		(A) predictive variable (C) estimated variable	(B) independent variable(D) dependent variable			•
	4.	What characterize unlabeled examples in mat(A) there is prior knowledge	(B) there is plenty of confusing knowledge	1	1	1
		(C) there is no confusing knowledge	(D) There is no prior knowledge.			
	5.	statistical procedure to find minimizing the sum of the offsets. (A) Sigmoid function	the best fit for a set of data points by	1	1	2
		(C) Logarithmic Loss	(B) Maximum Likelihood (D) Least Square Error			
	6.	<u> </u>				2
		(A) Slope of the line (C) Constant	(B) Independent variable(D) Coefficient of determination			
	7.	Pruning is a technique that is used to reduce		1	1	2
		(A) Overfitting (C) high bias	(B) Underfitting (D) high variance			
	8.	Suppose you got a situation where you fi fitting the data. In such situation which of the (A) You will add more features		11	1	2
		(C) you will remove some features	(D) You will add dummy features			
	9.	If the regression equation is equal to y=23. -54.2 is the of the regression line	6-54.2x, then 23.6 is the while	1	1	3
		(A) Slope, intercept (C) Intercept, slope	(B) Slope, Regression coefficient (D) Radius, Intercept			
	10.	A perceptron is a		1	1-	3
		(A) Feed-forward neural network (C) Backtracking algorithm	(B) Backpropagation algorithm(D) Feed Forward-backward algorithm			

Reg. No

Max. Marks: 100

Marks BL CO

09JF5-18CSE363J

B.Tech. DEGREE EXAMINATION, JUNE 2023

Fifth Semester

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11.	A 4-input neuron has weights 1, 2, 3 and 4 constant of proportionality being equal respectively. What will be the output?		1	1	2
	(A) 76	(B) 238			
	(C) 119	(D) 123			
12	What was the 2nd stage in perceptron mode		1	1	3
12.	(A) sensory units	(B) output unit	-	1	-
	(C) association unit	(D) summing unit			
12	is not a clustering approach.	(-)	1	1	4
13.	(A) Hierarchical	(B) Portioning	•	•	
	(C) project based	(D) Density			
1.4	What PCA does afterfall?	(-)	1	Ė	4
14.	(A) Create clusters in order to let you	(B) Reduce dimensionality of the data	_		
	know what are the class	and create new features			
	(C) Give you the highest number of	(D) Predicts your target with high			
	features possible	efficiency			
15.	What type of input can be given to the simil	larity based clustering?	1	1	4
	(A) NxN	(B) Distance matrix D			
	(C) NxD feature Matrix	(D) Design Matrix X			
16.	Temporal Difference Learning is an	technique that is very commonly used	1	= 1	4
	in reinforcement learning				
	(A) Supervised Learning	(B) Semi supervised learning			
	(C) Training	(D) unsupervised learning			
17.	models. is a statistical method used to	estimate the skill of machine learning	1	1	5
	(A) Cross-validation	(B) Training			
	(C) Testing	(D) Hypothesis			
18.	The method is a resampling technique used to estimate statistics on a population by sampling a dataset with replacement.		1	1	5
	(A) Bootstrap				
	(C) Boosting	(D) Stacking			
19.	the same subject.		1	1	5
	(A) paired t-test	(B) Normal Test			
	(C) Positive test	(D) Negative test			
20.	A is any ML algorithm (for accuracy slightly better than random guessi	regression/classification) that provides an	1	1	5
	(A) Weak Learner	(B) Q Learning			
	(C) Reinforcement	(D) Learning			
			Mar	ks BL	CO
	Part - B (5 × 4 Marks Answer any 5 Qu	•		LO DE	
21.	Annotate the different type of Machine lear	ming algorithm.	4	2	1
22.	Write note on Overfitting and Under fitting.		4	2	1
23.	Briefly write note on Simple Linear regression.		4	3	2
24.	Illustrate Perceptron learning with neat Diagram.		4	3	3
25.	Compare LVM and LDA.		4	2	4
26.	Annotate Non deterministic rewards and ac	ction in reinforcement learning.	4	·2	5 ·

27.	27. How K-Fold Validation is different from traditional training and testing methods? Part - C (5 × 12 Marks = 60 Marks) Answer All Questions		2	5
			BL	СО
28.	 a. Elaborate concept learning with neat diagram. (OR) b. Explain the application of Machine learning with a real time example. 	12	2	1
29.	a. Discuss the major drawbacks of K-nearest Neighbour learning Algorithm and how it can be corrected.	12	3	2
	(OR) b. Elucidate the Multiple linear Regression in detail.			
30.	a. Elaborate in detail about the functionality and types of neural network and justify the relation between biological neuron. (OR)	12	2	3
	b. Discuss Naïve Bayes Classifier in detail.			
31.	a. Elucidate with a real time example K-Means Clustering. (OR)	12	2	4
	b. Describe the Q-learning algorithm and how it is used in Reinforcement Learning.			
32.	(OR)	12	2	5
	b. Illustrate Ensembling model and its types with neat diagram.			
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