Online Examinations (Even Sem/Part-I/Part-II Examinations 2020 - 2021

Course Name - - Machine Learning Course Code - PEC-MCS201A

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8.

Mark only one oval.		
Diploma in Pharmacy		
Bachelor of Pharmacy		
B.TECH.(CSE)		
B.TECH.(ECE)		
BCA		
B.SC.(CS)		
B.SC.(BT)		
B.SC.(ANCS)		
B.SC.(HN)		
B.Sc.(MM)		
B.A.(MW)		
BBA		
B.COM		
B.A.(JMC)		
BBA(HM)		
BBA(LLB)		
B.OPTOMETRY		
B.SC.(MB)		
B.SC.(MLT)		
B.SC.(MRIT)		
B.SC.(PA)		
LLB		
B.SC(IT)-AI		
B.SC.(MSJ)		
Bachelor of Physiotherapy		
B.SC.(AM)		
Dip.CSE		
Dip.ECE		
<u>DIP.EE</u>		

9.

	···· NP.ME
	GDHM
	ЛВА
	M.SC.(BT)
	1.TECH(CSE)
	LM
	M.A.(JMC)
	M.A.(ENG)
	M.SC.(MATH)
	M.SC.(MB)
	MCA .
	M.SC.(MSJ)
	M.SC.(AM)
	M.SC.CS)
	M.SC.(ANCS)
	M.SC.(MM)
	A.(Eng)
Answer a	ll the questions. Each question carry one mark.
. 1.Whicl	n of the following is usually the last step in the data mining process?
Mark o	nly one oval.
\bigcirc V	Tisualization Tisualization
	reprocessing
	Modeling
	peployment

10.	2.Name of a movie, can be considered as an attribute of type?
	Mark only one oval.
	Nominal
	Ordinal
	Interval
	Ratio
11.	3.User rating given to a movie in a scale 1-10, can be considered as an attribute of type?
	Mark only one oval.
	Nominal
	Ordinal
	Interval
	Ratio
12.	4.Sales database of items in a supermarket can be considered as an example of:
	Mark only one oval.
	Record data
	Tree data
	Graph data
	None of the above

13.	5. Rows of a data matrix storing record data usually represents?
	Mark only one oval.
	Metadata
	Objects
	Attributes
	Aggregates
14.	6.If a record data matrix has reduced number of columns after a transformation,
	the transformation has performed:
	Mark only one oval.
	Data sampling
	Dimensionality reduction
	Noise cleaning
	Discretization
15.	7.Decision tree is an algorithm for:
	Mark only one oval.
	Classification
	Clustering
	Association rule mining
	Noise filtering

16.	8.Non-leaf nodes of a decision tree correspond to:
	Mark only one oval.
	Attributes
	Classes
	Data instances
	None of the above
17.	9.The purpose of pruning a decision tree is:
	Mark only one oval.
	improving training set classification accuracy
	improving generalization performance
	dimensionality reduction
	tree balancing
18.	10.Decision trees can be used for:
	Mark only one oval.
	Classification only
	Regression only
	Both classification and regression
	Neither of classification and regression

19.	11.Maximum aposteriori classifier is also known as:
	Mark only one oval.
	Decision tree classifier
	Bayes classifier
	Gaussian classifier
	Maximum margin classifier
20.	12.Let Abe a n example, and C be a class. The probability P(C) is known as:
20.	12.Let Abe a frexample, and C be a class. The probability F(C) is known as.
	Mark only one oval.
	Apriori probability
	Aposteriori probability
	Class conditional probability
	None of the above
21.	13.Consider two binary attributes X and Y. We know that the attributes are independent and probability $P(X=1) = 0.6$, and $P(Y=0) = 0.4$. What is the probability that both X and Y have values 1?
	Mark only one oval.
	0.06
	0.16
	0.26
	0.36

22.	14.Support vector machine may be termed as:
	Mark only one oval.
	Maximum aprori classifier
	Maximum margin classifier
	Minimum apriori classifier
	Minimum margin classifier
23.	15.In a hard margin support vector machine:
	Mark only one oval.
	No training instances lie inside the margin
	All the training instances lie inside the margin
	Only few training instances lie inside the margin
	None of the above
24.	16.The generalization constant C is used to tune the:
	Mark only one oval.
	test error only
	training error only
	relative weightage to training and test error
	none of the above

25.	17.The logic function that cannot be implemented by a perceptron having two inputs is?
	Mark only one oval.
	AND
	OR
	NOR
	◯ XOR
26.	18.A multi-layered perceptron is usually trained using:
	Mark only one oval.
	margin maximization algorithm
	single linkage algorithm
	belief propagation algorithm
	backpropagation algorithm
27.	19.Overfitting is expected when we observe that?
	Mark only one oval.
	With training iterations error on training set as well as test set decreases
	With training iterations error on training set decreases but test set increases
	With training iterations error on training set as well as test set increases
	With training iterations training set as well as test set error remains constant

28.	20.which of the following clustering algorithm uses a dendogram?
	Mark only one oval.
	Complete linkage clustering K-means clustering DBSCAN None of the above
29.	21.Which of the following is not true about K-means clustering algorithm?
	Mark only one oval.
	It is a partitional clustering algorithm The final cluster obtained depends on the choice of initial cluster centres Number of clusters need to be specified in advance It can generate non-convex cluster shapes
30.	22.Regression is used in: Mark only one oval.
	predictive data mining exploratory data mining descriptive data mining explanative data mining

31.	23.The output of a regression algorithm is usually a:
	Mark only one oval.
	real variable
	integer variable
	character variable
	string variable
32.	24.Accuracy of a linear regression model usually has?
52.	24. Accuracy of a life at regression model askally has:
	Mark only one oval.
	low bias and low variance
	low bias but high variance
	high bias but low variance
	High bias and high variance
33.	25.A time series prediction problem is often solved using?
	Mark only one oval.
	Multivariate regression
	Autoregression
	Logistic regression
	Sinusoidal regression

34.	26.What is global stability?
	Mark only one oval.
	when both synaptic & activation dynamics are simultaneously used & are in equilibrium
	when only synaptic dynamics in equilibrium
	none of the mentioned
	All of the above
35.	27.Who proposed the shunting activation model?
	Mark only one oval.
	Rosenblatt
	hopfield
	perkel
	grossberg
36.	28.What was the goal of shunting activation model?
	Mark only one oval.
	to make system dynamic
	to keep operating range of activation value to a specified range
	to make system static
	can be either for dynamic or static, depending on inputs

37.	29.What is meant by generalized in statement backpropagation is a generalized delta rule?
	Mark only one oval.
	because delta rule can be extended to hidden layer units
	because delta is applied to only input and output layers, thus making it more simple and generalized
	it has no significance
	none of the mentioned
38.	30.What are the general tasks that are performed with backpropagation algorithm?
	Mark only one oval.
	pattern mapping
	function approximation
	prediction
	all of the mentioned
39.	31. How can learning process be stopped in backpropagation rule?
	Mark only one oval.
	there is convergence involved
	no heuristic criteria exist
	on basis of average gradient value
	none of the mentioned

40.	32. Which approach is most suited to structured problems with little uncertainty?
	Mark only one oval.
	Simulation
	Human intuition
	Optimization
	Genetic algorithms
41.	33. Which approach is most suited to complex problems with significant uncertainty, a need for experimentation, and time compression?
	Mark only one oval.
	Simulation
	Optimization
	Human intuition
	Genetic algorithms
42.	34.In which stage of the simulation methodology do you determine the variables and gather data
	Mark only one oval.
	Defining the problem
	Constructing the simulation model
	Testing and validating the model
	Designing the experiment

43.	35.In which stage of the simulation methodology do you determine the system's boundaries and environment?
	Mark only one oval.
	Constructing the simulation model
	Defining the problem
	Testing and validating the mode
	Designing the experiment
44.	36.What BEST describes a simulation model with a limited number of variables, each with a finite number of values?
	Mark only one oval.
	System dynamics simulation
	Discrete event simulation
	Continuous distribution simulation
	Monte Carlo simulation
45.	37.Core of soft Computing is
	Mark only one oval.
	Fuzzy Computing, Neural Computing, Genetic Algorithms
	Fuzzy Networks and Artificial Intelligence
	Artificial Intelligence and Neural Science
	Neural Science and Genetic Science

46.	38.Artificial intelligence is
	Mark only one oval.
	It uses machine-learning techniques. Here program can learn From past experience and adapt themselves to new situations
	Computational procedure that takes some value as input and produces some value as output.
	Science of making machines performs tasks that would require intelligence when performed by humans
	None of these
47.	39.Expert systems
	Mark only one oval.
	Combining different types of method or information
	Approach to the design of learning algorithms that is structured along the lines of the theory of evolution
	an information base filled with the knowledge of an expert formulated in terms of if- then rules
	None of these
48.	40.Falsification is
	Mark only one oval.
	Modular design of a software application that facilitates the integration of new modules
	Showing a universal law or rule to be invalid by providing a counter example
	A set of attributes in a database table that refers to data in another table
	None of these

49.	41.Evolutionary computation is
	Mark only one oval.
	Combining different types of method or information
	Approach to the design of learning algorithms that is structured along the lines of the theory of evolution.
	Decision support systems that contain an information base filled with the knowledge of an expert formulated in terms of if-then rules.
	None of these
50.	42.Massively parallel machine is
	Mark only one oval.
	A programming language based on logic
	A computer where each processor has its own operating system, its own memory, and its own hard disk
	Describes the structure of the contents of a database.
	None of these
51.	43.Search space
	Mark only one oval.
	The large set of candidate solutions possible for a problem
	The information stored in a database that can be, retrieved with a single query.
	Worth of the output of a machine learning program that makes it understandable for humans
	None of these

52.	44.Shallow knowledge
	Mark only one oval.
	The large set of candidate solutions possible for a problem
	The information stored in a database that can be, retrieved with a single query
	Worth of the output of a machine learning program that makes it understandable for humans
	None of these
53.	45.Neural Computing
	Mark only one oval.
	mimics human brain
	information processing paradigm
	Both (a) and (b)
	None of the above
54.	46.What are the 2 types of learning
J 4 .	40.What are the 2 types of learning
	Mark only one oval.
	Improvised and unimprovised
	supervised and unsupervised
	Layered and unlayered
	None of the above

55.	47.Supervised Learning is
	Mark only one oval.
	learning with the help of examples
	learning without teacher
	learning with the help of teacher
	learning with computers as supervisor
56.	48.A Neural Network can answer
00.	
	Mark only one oval.
	For Loop questions
	What-if questions
	IF-The-Else Analysis Questions
	None of these
57.	49.Ability to learn how to do tasks based on the data given for training or initial experience
	Mark only one oval.
	Self-Organization
	Adaptive Learning
	Fault tolerance
	Robustness

58.	50.Feature of ANN in which ANN creates its own organization or representation of information it receives during learning time is
	Mark only one oval.
	Adaptive Learning
	Self-Organization
	What-If Analysis
	Supervised Learning
59.	51.Each connection link in ANN is associated with which has information about the input signal.
	Mark only one oval.
	neurons
	weights
	bias
	activation function
60.	52.Neuron can send signal at a time.
	Mark only one oval.
	multiple
	one
	none
	any number of

01.	the constant of proportionality being equal to 2. The inputs are 4, 10, 5 and 20 respectively. What will be the output?
	Mark only one oval.
	238
	119
	123
62.	54. Which of the following is true for neural networks? (i) The training time depends on the size of the network. (ii) Neural networks can be simulated on a conventional computer. (iii) Artificial neurons are identical in operation to biological ones.
	Mark only one oval.
	All of the mentioned are true
	(ii) and (iii) are true
	(i), (ii) and (iii) are true
	None of the mentioned
63.	55.What was the 2nd stage in perceptron model called?
	Mark only one oval.
	sensory units
	summing unit
	association unit
	output unit

64.	56.What is adaline in neural networks?
	Mark only one oval.
	adaptive linear element
	automatic linear element
	adaptive line element
	none of the mentioned
65.	57.Who invented the adaline neural model?
	Mark only one oval.
	Rosenblatt
	Hopfield
	Werbos
	Widrow
66.	58.In adaline model what is the relation between output & activation value(x)?
	Mark only one oval.
	linear
	nonlinear
	can be either linear or non-linear
	none of the mentioned

67.	59.The fundamental unit of network is
	Mark only one oval.
	brain
	nucleus
	neuron
	axon
68.	60.State whether Hebb's law is supervised learning or of unsupervised type?
	Mark only one oval.
	Supervised
	unsupervised
	either supervised or unsupervised
	can be both supervised & unsupervised

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