Online Assessment (Special Examination) (Even Sem/Part-I/Part-II Examinations 2019 - 2020

Course Name - Soft Computing Course Code - BCSE604B

- * You can submit the form ONLY ONCE.
- * Fill the following information for further process.
- * Required

1.	Email address *
2.	Name of the Student *
3.	Enter Full Student Code *
4.	Enter Roll No *
5.	Enter Registration No *

6.	Enter Course Code *
7.	Enter Course Name *

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			
PGDHM			
Dip.CSE			
Dip.ECE			
Dip.EE			
Dip.CE			
Dip.ME			
MCA			

2/1/2021		Online Assessment (Special Examination) (Even Sem/Part-I/Part-II Examinations 2019 - 2020		
		M.SC.(ANCS)		
		M.SC.(MM)		
		MBA		
		M.SC.(BT)		
		M.TECH(CSE)		
		LLM		
		M.A.(JMC)		
		M.A.(ENG)		
		M.SC.(MATH)		
		M.SC.(MB)		
	Answer all the questions. Each question carry one mark.			
	9. 1. 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		
	10.	2. Who initiated the idea of Soft Computing		
		Mark only one oval.		
		Charles Darwin		
		Lofti A Zadeh		
		Rechenberg		
		Mc_Culloch		

11. 3. 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 12. 4. Expert systems Mark only one oval. combine 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 ifthen rules None of these 13. 5. 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

14.

6. 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
15.	7. 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
16.	8. n(log n) is referred to
	Mark only one oval.
	A measure of the desired maximal complexity of data mining algorithms
	A database containing volatile data used for the daily operation of an organization
	Relational database management system
	None of these

17.

9. Which is true about the Shallow knowledge Mark only one oval.			
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			
10. Vector			
Mark only one oval.			
does not need the control of the human operator during their execution			
is an arrow in a multi-dimensional space. It is a quantity usually characterized by an ordered set of scalars			
the validation of a theory on the basis of a finite number of examples			
None of these			
11. Fuzzy Computing			
Mark only one oval.			
mimics human behavior			
doesn't deal with 2 valued logic			
deals with information which is vague, imprecise, uncertain, ambiguous, inexact, or probabilistic			
All of these			

20.	12. The membership functions are generally represented in
	Mark only one oval.
	Tabular Form
	Graphical Form
	Mathematical Form
	Logical Form
21.	13. The region of universe that is characterized by complete membership in the series called
	Mark only one oval.
	Core
	Support
	Boundary
	Fuzzy
22.	14. A fuzzy set wherein no membership function has its value equal to 1 is called
	Mark only one oval.
	normal fuzzy set
	Sub normal fuzzy set
	convex fuzzy set
	concave fuzzy set

23.	15. The crossover points of a membership function are defined as the elements in the universe for which a particular fuzzy set has values equal to		
	Mark only one oval.		
	Infinite		
	1		
	0		
	0.5		
24.	16. Fuzzy logic is :		
	Mark only one oval.		
	used to respond to questions in a humanlike way		
	a new programming language used to program animation		
	the result of fuzzy thinking		
	a term that indicates logical values greater than one		
25.	17. UA robot is a		
	Mark only one oval.		
	computer-controlled machine that mimics the motor activities of living things		
	machine that thinks like a human		
	machine that replaces a human by performing complex mental processing tasks		
	type of virtual reality device that takes the place of humans in adventures		

26.	18. Robots used in automobile plants would be classified as :			
	Mark only one oval.			
	Perception systems			
	Industrial robots			
	Mobile robots			
	Knowledge robots			
27.	19. Graphic programs widely used in the graphic arts profession include			
	Mark only one oval.			
	Desktop publishing programs, image editors and illustration programs			
	Artificial intelligence, virtual reality, and illustration programs			
	Mega media programs, image editors, and desktop publishing programs			
	Virtual reality, desktop publishing programs, and illustration programs			
28.	20. Consider a fuzzy set A defined on the interval X = [0, 10] of integers by the membership Junction : μ A(x) = x / (x 2)Then the a cut corresponding to a = 0.5 will be			
	Mark only one oval.			
	{0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10}			
	{1, 2, 3, 4, 5, 6, 7, 8, 9, 10}			
	{2, 3, 4, 5, 6, 7, 8, 9, 10}			
	None of these			

29.	21. The height h(A) of a fuzzy set A is defined as h(A) = sup A(x)			
	Mark only one oval.			
	h(A) <0			
	h(A)=1			
	h(A)<1			
30.	22.A point of a fuzzy set A is a point $x \in X$ at which $\mu A(x) = 0.5$			
	Mark only one oval.			
	core			
	support			
	cross-over			
	α - cut			
31.	23. Suppose the function y and a fuzzy integer number around -4 for x are given as $y=(x-3)2+2$. Around -4 = {(2, 0.3), (3, 0.6), (4, 1), (5, 0.6), (6, 0.3)} respectively. Then f (Around -4) is given by:			
	Mark only one oval.			
	{(2, 0.6), (3, 0.3), (6, 1), (11, 0.3)}			
	{(2, 0.6), (3, 1), (6, 1), (11, 0.3)}			
	{(2, 0.6), (3, 1), (6, 0.6), (11, 0.3)}			
	{(2, 0.6), (3, 0.3), (6, 0.6), (11, 0.3)}			

	Online Assessment (Special Examination) (Even Sem/Part-I/Part-II Examinations 2019 - 2020
32.	24.Given U = $\{1,2,3,4,5,6,7\}$ A = $\{(3, 0.7), (5, 1), (6, 0.8)\}$ then A will be: (where $\sim \rightarrow$ complement)
	Mark only one oval.
	{(4, 0.7), (2,1), (1,0.8)}
	{(4, 0.3.): (5, 0), (6. 0.2)}
	{(I, 1), (2, 1), (3, 0.3), (4, 1), (6,0.2), (7, 1)}
	{(3, 0.3), (6.0.2)}
33.	25. Perceptron learning, Delta learning and LMS learning are learning methods which falls under the category of
	Mark only one oval.
	Error correction learning - learning with a teacher
	Reinforcement learning - learning with a critic

34. 26. A perceptron has input weights W1 = -3.9 and W2 = 1.1 with threshold value T = 0.3. What output does it give for the input x1 = 1.3 and x2 = 2.2?

Competitive learning - learning without a teacher

Mark only one oval.

Hebbian learning

-2.65

-2.3

0

35.	27. In a single perceptron,	the updating rule of	f weight vector i	s given by
-----	-----------------------------	----------------------	-------------------	------------

Mark only one oval.

- $w(n + 1)=w(n)+\eta[d(n)-y(n)]$
- $w(n + 1)=w(n)-\eta[d(n)-y(n)]$
- $w(n + 1)=w(n)+\eta[d(n)-y(n)]*x(n)$
- $w(n + 1)=w(n)-\eta[d(n)-y(n)]*x(n)$

36. 28.
$$w(n + 1)=w(n)-\eta[d(n)-y(n)]*x(n)$$

Mark only one oval.

- $x^3 x 1 = 0$
- $x^3 + x 1 = 0$
- $x^2 x 1 = 0$
- $x^2 + x 1 = 0$
- 37. 29. A fuzzy set A on R is..... iff $A(\lambda x1 + (1 \lambda)x2) \ge min[A(x1), A(x2)]$ for all $x1, x2 \in R$ and all $\lambda \in [0, 1]$, where min denotes the minimum operator.

Mark only one oval.

- Support
- a-cut
- Convex
- Concave

38.	30. What are the 2 types of learning
	Mark only one oval.
	Improvised and unimprovised
	supervised and unsupervised
	Layered and unlayered
	None of these

This content is neither created nor endorsed by Google.

Google Forms