Program: BE Electronics and Telecommunication Engineering

Curriculum Scheme: Rev2016 Examination: Final Year Semester VII

Course Code: ECCDLO7031 and Course Name: Neural Network & Fuzzy Logic Time: 1 hour Max. Marks: 50

Note to the students:- All the Questions are compulsory and carry equal marks .

Q1.	Signal transmission at synapse is a	
Option A:	Physical process	
Option B:	Chemical Procees	
Option C:	Biological process	
Option D:	Activation	
Q2.	What are dendrites?	
Option A:	Nuclear projections	
Option B:	Fibres of nerve	
Option C:	other name for nucleus	
Option D:	Soma	
Q3.	How to identify the network given is supervised or unsupervised	
Option A:	if error is given	
Option B:	If desired output is given	
Option C:	if actual ouput is given	
Option D:	if learning constant is there	
Q4.	Positive sign of weight indicates?	
Option A:	Excitatory input	
Option B:	Inhibitory input	
Option C:	can be either excitatory or inhibitory as such	
Option D:	Possible weight	
Q5.	Which activation function used in perceptron Learning rule	
Option A:	Binary	
Option B:	Continuous	
Option C:	both	
Option D:	independent of both	
Q6.	In supervised learning	
Option A:	Classes are not predefined	
Option B:	Classes are predefined	
Option C:	Classes are not required	
Option D:	Classification is not done	
Q7.	Which of the following learning rule is unsupervised	
Option A:	Perceptron	
Option B:	Delta	
Option C:	Correlation	

Ontion D.	Habbin	
Option D:	Hebbian	
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Q8.	The network that involves backward links from output to the input and hidden	
<u> </u>	layers is called	
Option A:	Self organizing map	
Option B:	Perceptrons	
Option C:	Recurrent neural network	
Option D:	Multi layered perceptron	
Q9.	What is unsupervised learning?	
Option A:	weight adjustment based on deviation of desired output from actual output	
Option B:	weight adjustment based on desired output only	
Option C:	weight adjustment based on local information available to weights	
Option D:	weight variation	
Q10.	How are input layer units connected to second layer in competitive learning	
	networks?	
Option A:	feedforward manner	
Option B:	feedback manner	
Option C:	feedforward and feedback	
Option D:	feedforward or feedback	
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Q11.	How is weight vector adjusted in basic competitive learning?	
Option A:	such that it moves towards the input vector	
Option B:	such that it moves away from input vector	
Option C:	such that it moves towards the output vector	
Option D:	such that it moves away from output vector	
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Q12.	In hopfield network with symmetric weights, energy at each state may?	
Option A:	increase	
Option B:	decrease	
Option C:	decrease or remain same	
Option D:	decrease or increase	
opnon B.	decrease of mercase	
Q13.	Automated vehicle is an example of which type of learning	
Option A:	Supervised learning	
Option B:	Unsupervised learning	
Option C:	Active learning	
Option D:	Reinforcement learning	
Option D.	Remoteuring	
Q14.	In character recognition which type of network architecture is used?	
Option A:	single layer feed forward	
Option B:	C ,	
	Multilayer feed forward	
Option C:	Single layer feedback	
Option D:	Multilayer feedback network	
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Q15.	Which is the most direct application of neural networks?	
Option A:	vector quantization	

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Option B:	pattern mapping		
Option C:	pattern classification		
Option D:	control applications		
Q16.	Three main basic features involved in characterizing membership function are		
Option A:	Core, Support , Boundary		
Option B:	Fuzzy Algorithm, Neural network, Genetic Algorithm		
Option C:	Intution, Inference, Rank Ordering		
Option D:	Weighted Average, center of Sums, Median		
Q17.	A fuzzy set 'A' in Z is characterized by a that associates with		
	element of Z, a real number in the interval [0, 1].		
Option A:	Grade of membership		
Option B:	Membership function		
Option C:	Generic element		
Option D:	Degree of truthness		
Q18.	The Student is Tall.Here the Tall (linguistic variable) can be represented by		
Option A:	Fuzzy relation		
Option B:	Fuzzy Set		
Option C:	Crisp set Logic		
Option D:	Crisp Relation		
Q19.	Fuzzy relation R is symmetric if		
Option A:	$\mu R(xi,xj) = \mu R(xj,xi)$		
Option B:	$\mu R(xi,xi)=1$		
Option C:	$\mu R(xj,xi) = \mu R(xj,xi)$		
Option D:	$\mu R(xi,xi) = \mu R(xj,xj)$		
Q20.	Fuzzy logic is usually represented as		
Option A:	Both IF-THEN-ELSE rules & IF-THEN rules		
Option B:	IF-THEN rules		
Option C:	For rules		
Option D:	IF-THEN-ELSE rules		
Q21.	Complement of Fuzzy set A is given by		
Option A:	$1+\mu A(x)$		
Option B:	$1/\mu A(x)$		
Option C:	2*μA(x)		
Option D:	1-μA(x)		
Q22.	A robot is a		
Option A:	Machine that thinks like a human		
Option B:	Type of virtual reality device that takes the place of humans in adventures		
Option C:	Machine that replaces a human by performing complex mental processing tasks		
Option D:	Computer-controlled machine that mimics the motor activities of living things		
Q23.	Fuzzy logic is		

Option A:	A new programming language used to program animation	
Option B:	Used to respond to questions in a humanlike way	
Option C:	The result of fuzzy thinking	
Option D:	A term that indicates logical values greater than one	
Q24.	While designing Fuzzy Logic Machine steps are performed in which sequence?	
Option A:	Fuzzification->Rule Evaluation ->Defuzzification	
Option B:	Defuzzification->rule Evaluation->Fuzzification	
Option C:	Rule Evaluation->Fuzzification->Defuzzification	
Option D:	Fuzzification->Defuzzification->Rule Evaluation	
Q25.	following not example of fuzzy controller	
Option A:	Washing machine	
Option B:	Air conditioner	
Option C:	Train	
Option D:	Mixer	

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Question	Correct Option (Enter either 'A' or 'B' or 'C' or 'D')
Q1.	В
Q2.	В
Q3.	В
Q4	A
Q5	A
Q6	В
Q7	D
Q8.	С
Q9.	С
Q10.	A
Q11.	A
Q12.	С
Q13.	A
Q14.	В
Q15.	С
Q16.	A
Q17.	В
Q18.	В
Q19.	A
Q20.	В
Q21.	D
Q22.	D
Q23.	В
Q24.	A
Q25.	D