Q.17 What is single layer perception network. Discuss. (CO2)

Q.18 Explain perception training algorithm for multiple output classes. (CO2)

Q.19 Draw the architecture adaptive linear neuron network. (CO3)

Q.20 Explain any four major feature of java. (CO3)

Q.21 Write the applications of neural networks. (CO4)

Q.22 Discuss about characters recognition networks. (CO4)

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x8=16)

Q.23 Discuss the basic model of neural network. Also discuss various types of learning in neural networks. write the advantages of neural networks. (CO1)

Q.24 Write comparison between adaptive linear neuron , Multiple adaptive linear neuron and back propagation networks. (CO3)

Q.25 What is robot kinematics. Explain in detail the process identification networks for it. (CO4)

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3rd Sem / Artificial Intelligence & Machine Learning

Subject : Neural Networks

Time : 3 Hrs. M.M. : 60

SECTION-A

Note: Multiple choice questions. All questions are compulsory (6x1=6)

Q.1 Which is true for neural networks ? (CO1)

a) It has set of nodes and connections

b) each node computes it's weighted input

c) node could be in excited state or non-excited state

d) All of the mentioned

Q.2 Example of a unsupervised feature map ? (CO3)

a) Text recognition

b) voice recognition

c) image recognition

d) None of the mentioned

Q.3 How many types of Artificial Neural Networks? (CO1)

a) 2 b) 3

c) 4 d) 5

Q.4 Automated vehicle is an example of (CO4)

a) supervised learning

b) unsupervised learning

c) active learning

d) reinforcement learning

Q.5 What is back propagation? (CO3)

a) It is another name given to the curvy function in the perceptron

b) It is the transmission of error back through the network to adjust the inputs

c) It is the transmissions of error back through the network to allow weight to be adjusted so that the network can learn

d) None of the above

Q.6 What is the most direct application of neural network. (CO4)

a) Vector quantization

b) Pattern mapping

c) Pattern classification

d) control applications

SECTION-B

Note: Objective/ Completion type questions. All questions are compulsory. (6x1=6)

Q.7 Full form of ANN. (CO1)

Q.8 The_____ is a single layer feed foreward network. (CO2)

Q.9 Full form of RNN. (CO1)

Q.10 Define neuro software. (CO4)

Q.11 _____is also called exploratory learning. (CO3)

Q.12 Write the two types of robot kinematics. (CO4)

SECTION-C

Note: Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

Q.13 Discuss the basic concept of artificial neural network. (CO1)

Q.14 Write difference between supervised and unsupervised learning. (CO3)

Q.15 Explain feed feedback neural networks (CO1)

Q.16 Explain Hebbian Learning. (CO2)