Q.17 Discuss about architecture of supervised networks. (CO3)

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

Q.19 Write comparison between adaptive linear neuron network and multiple adaptive linear neuron network. (CO2)

Q.20 Explain architecture of Back propagation network. (CO1)

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

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

SECTION-D

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

Q.23 Define neural network. Discuss the basic model of neural network. Write the advantages of neural networks. (CO1)

Q.24 Discuss about multiple adaptive linear neuron networks in detail. (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 Why do we need biological neural networks? (CO1)

a) to solve tasks like machine vision & natural language processing

b) to apply heuristic search methods to find solutions of problem

c) to make smart human interactive & user friendly system

d) all of the mentioned

Q.2 What is unsupervised learning ? (CO3)

a) features of group explicitly stated

b) number of groups may be known

c) neither feature & nor number of group is known

d) none of the mentioned

Q.3 What is the full form of ANNs? (CO1)

a) Artificial Neural Node

b) Ai Neural Networks

c) Artificial Neural Networks

d) Artificial Neural Numbers

Q.4 Which of the following is not a Machine Learning Strategies in ANNs? (CO2)

a) Unsupervised Learning

b) Reinforcement Learning

c) Supreme Learning

d) Supervised Learning

Q.5 he network that involves backward links from output to the input and hidden layers is called_____ (CO3)

a) Self organizing map

b) Perceptrons

c) Recurrent neural network

d) Multi layered perceptrons

Q.6 Which of the following is an Applications of Neural Networks? (CO4)

a) Automotive b) Aerospace

c) Electronics d) All of the above

SECTION-B

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

Q.7 In artificial neural network interconnected processing elements are called_____. (CO1)

Q.8 Automated vehicle is an example of_____ learning. (CO4)

Q.9 Neural Networks are complex_____ with many parameters. (CO1)

Q.10 On an average neural networks have higher computational rates than conventional computers. (True/False) (CO2)

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 Write comparison between artificial and biological neural networks. (CO1)

Q.14 Discuss about supervised, unsupervised and reinforcement learning. (CO3)

Q.15 Explain Feed Foreward neural networks. (CO2)

Q.16 Write a short note on Hebbian learning rule. (CO2)