**1.** Which of these has been associated with fuzzy logic?

a. Many-valued logic

b. Crisp set logic

c. Binary set logic

d. Two-valued logic

**Answer:** **(a) Many-valued logic**

**2.** How is the probability density function represented?

a. Probability distributions

b. Probability distributions for the Continuous variables

c. Discrete variable

d. Continuous variable

**Answer: (b) Probability distributions for the Continuous variables**

**3.** How can uncertainty be represented?

a. Fuzzy logic

b. Probability

c. Entropy

d. All of the above

**Answer:** **(d) All of the above**

**4.** The name of the operator that is present in fuzzy set theory, that is linguistic in nature, is:

a. Hedges

b. Lingual Variable

c. Fuzz Variable

d. All of the above

**Answer: (a) Hedges**

**5.** Which of these conditions can influence a variable directly by all the others?

a. Locally connected

b. Partially connected

c. Fully connected

d. All of the above

**Answer:** **(c) Fully connected**

**6.** Which of these is NOT an artificial neural network’s promise?

a. It is capable of handling noise

b. It is capable of surviving the failure of some nodes

c. It is capable of inherent parallelism

d. It is capable of explaining the result

**Answer:** **(d) It is capable of explaining the result**

**7.** We can use the membership function to solve empirical problems based on:

a. Examples

b. Experience

c. Learning

d. Knowledge

**Answer:** **(b) Experience**

**8.** Feature of ANN in which ANN creates its own organization of representation of information it receives during learning time is

a. Adaptive Learning

b. What-if analysis

c. Self-Organization

d. Supervised learning

**Answer:** **(c) Self-Organization**

**9.** What would be the name of a network that includes backward links from a given output to its inputs along with the hidden layers?

a. Recurrent neural network

b. Multi-layered perceptron

c. Self-organising maps

d. Perceptron

**Answer**: **(a) Recurrent neural network**

**10.** What out of these is involved in the case of inductive learning?

a. Irregular Hypothesis

b. Estimated Hypothesis

c. Consistent Hypothesis

d. Inconsistent Hypothesis

**Answer:** **(c) Consistent Hypothesis**

**11.** Which of these is not counted in various learning methods?

a. Deduction

b. Introduction

c. Memorisation

d. Analogy

**Answer:** **(b) Introduction**

**12.** An automated vehicle refers to an application of which of these?

a. Reinforcement learning

b. Unsupervised learning

c. Active learning

d. Supervised learning

**Answer: (d) Supervised learning**

**13.** Which of these is termed to be exploratory learning?

a. Unsupervised learning

b. Reinforcement learning

c. Supervised learning

d. Active learning

**Answer: (a) Unsupervised learning**

**14.** What is the feature of ANN in which the ANN would create its own organisation for the representation of all the information that it receives during its learning time?

a. Supervised Learning

b. Self-Organisation

c. What-if Analysis

d. Adaptive Learning

**Answer:** **(b) Self-Organisation**

**15.** Which of these would take input in the form of an object that is described by an attribute set?

a. Decision graph

b. Graph

c. Decision tree

d. Tree

**Answer:** **(c) Decision tree**

**16.** Every connection link present in ANN gets linked to the \_\_\_\_\_\_\_\_ that consists of various statics about an input signal.

a. Activation function

b. Neurons

c. Bias

d. Weights

**Answer:** **(d) Weights**

**17.** A crossover operator proceeds in how many steps?

a. 5

b. 4

c. 3

d. 2

**Answer:** **(c) 3**

**18.** Which of these would help in the conversion of a bit pattern into some other bit pattern with the help of a logical bitwise operation?

a. Segregation

b. Masking

c. Inversion

d. Conversion

**Answer:** **(b) Masking**

**19.** Which of these is NOT a specified method that is used for the selection of the parents?

a. Steady-state

b. Tournament Selection

c. Boltzmann selection

d. Elitism

**Answer:** **(a) Steady-state**

**20.** The interconnected processing elements in an artificial neural network are known as:

a. Soma

b. Axon

c. Weights

d. Neurons or Nodes

**Answer**:**(d) Neurons or Nodes**