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I Choose the correct alternative:

1. Logistic function is _____function []
 A. Threshold function B. Heaviside function
 C. Piecewise-linear function D.Sigmoid function

2. When the training data set is large and highly redundant _____ mode of Back propagation learning is computationally faster []
 A. Parallel B. batch C.Multi D.sequential

3. Each neuron is represented by a _____ []
 A.Computation node B.synaptic node C.source node D.activation node

4. LMS algorithm is an example of _____ []
 A . Closed feed back system B. Stochastic feed back system
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5. The linear combiner output is written in the compact form as _____ []
 A. $W(n) = X^T(n) v(n)$ B. $v(n) = W^T(n) X(n)$
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6. Which are elementary structural and functional units that mediate the interactions between Neurons? []
 A. Neurons B. Effectors C.Receptors D.Synapses.

7. Which are organizes to respond to incoming sensory information? []
 A. Synapses B.Neurons C. Topological maps D.Interregional circuits.

8. Which of the following sentences is false? []
 A. Single layer neural network is acyclic B. Multilayer feed forward network is acyclic
 C. Recurrent network is cyclic. D. Recurrent network is acyclic

9. The learning curve is a plot of _____ versus the number of iterations []
 A. Mean value of estimation error. B. Mean- square value of the estimation error
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10. Which of the following learning uses both induction and deduction processing? []
 A. Explanation –based learning B. Rote Learning
 C. Theorem Proof D. Similarly –based learning.

II Fill in the Blanks

11. The energetic efficiency of the brain is approximately _____ -
12. Memory – based learning is also known as _____ rule.
13. The first criterion for convergence of the LMS algorithm is _____ .
14. The goal of the Perceptron is to correctly classify the set of externally applied stimulus into _____ .
15. Epoch means _____ .
16. The assignment of credit for actions to internal decisions is called _____ credit Assignment problem.
17. To have accurate adaptive filtering action of the algorithm, the misadjustment value Should be _____
18. XOR problem cannot be solved by _____
19. The rank of the memory matrix M is limited by _____
20. For the perceptron to function property , the two classes C_1 , C_2 must be _____

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