

# Lab quiz- Neural Network and Backpropagation

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\* Required

1. The backpropagation law is also known as generalized delta rule, is it true? \*

(1 Point)

☒ yes

☐ no

2. Does backpropagation learning is based on gradient descent along error surface? \*

(1 Point)

☒ yes

☐ no

☐ cannot be said

☐ it depends on gradient descent but not error surface

3. What is the objective of backpropagation algorithm? \*

(1 Point)

☐ to develop learning algorithm for multilayer feedforward neural network

- ☐ to develop learning algorithm for single layer feedforward neural network
- ☒ to develop learning algorithm for multilayer feedforward neural network, so that network can be trained to capture the mapping implicitly
- ☐ none of the mentioned

4. What is true regarding backpropagation rule? \*  
(1 Point)

- ☐ it is also called generalized delta rule
- ☐ error in output is propagated backwards only to determine weight updates
- ☐ there is no feedback of signal at any stage
- ☒ all of the mentioned

5. What is meant by generalized in statement "backpropagation is a generalized delta rule" ? \*  
(1 Point)

- ☒ because delta rule can be extended to hidden layer units
- ☐ because delta is applied to only input and output layers, thus making it more simple and generalized
- ☐ it has no significance
- ☐ none of the mentioned

6. There is feedback in final stage of backpropagation algorithm? \*  
(1 Point)

- ☐ yes
- ☒ no

7. How can learning process be stopped in backpropagation rule? \*

(1 Point)

- ☐ there is convergence involved
- ☐ no heuristic criteria exist
- ☒ on basis of average gradient value
- ☐ none of the mentioned

8. What are the general tasks that are performed with backpropagation algorithm?

\*

(1 Point)

- ☐ pattern mapping
- ☐ function approximation
- ☐ prediction
- ☒ all of the mentioned

9. What is true regarding backpropagation rule? \*

(1 Point)

- ☐ it is a feedback neural network
- ☒ actual output is determined by computing the outputs of units for each hidden layer
- ☐ hidden layers output is not all important, they are only meant for supporting input and output layers
- ☐ none of the mentioned

10. What are general limitations of back propagation rule? \*

(1 Point)

- ☐ local minima problem
- ☐ slow convergence
- ☐ scaling
- ☒ all of the mentioned

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