Quizizz

NAME : _____

CLASS : _____

Computational Graph
8 Questions

DATE : _____

1. The computational graph is a directed graph which is used for evaluating the mathematical expression.

A True

B False

2. The structure of the Computation Graph includes nodes, edges and operation.

A False

B True

3. What is the node's value?

A Tensor

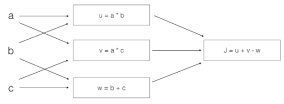
B Matrix

C Vector

D Scalar value

4. Fill in the blank:
Forward propagation loop over nodes in .... order compute the value of the node given its inputs.

5. Fill in the blank:
Backward propagation loop over the nodes in ..... order starting with a final goal node.

6. 

What is output J?

A J = (c - 1)*(b + a)

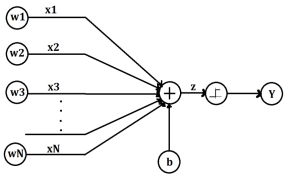
B J = (b - 1) * (c + a)

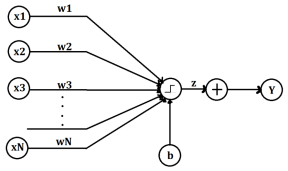
C J = a*b + b*c + a*c

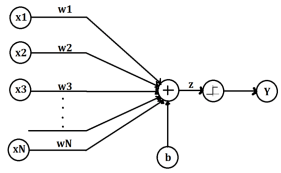
D J = (a - 1) * (b + c)

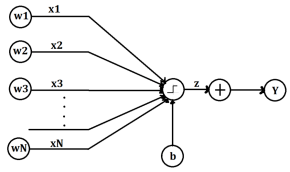
7. $$z = \sum_i w_i x_i + b$$
$$y = \begin{cases} 1 \; if \; z \geq 0 \\ 0 \; else \end{cases}$$

Which is computational graph of this mathematical expression?

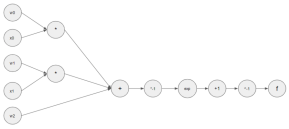
A 

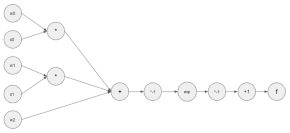
B 

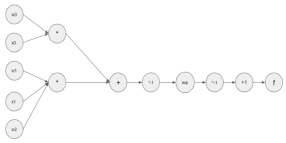
C 

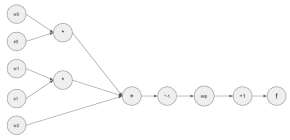
D 

8. Which is computational graph of $\mathrm{f}(\mathrm{w}, \mathrm{x}) = \dfrac{1}{1 + \mathrm{e}^{-(\mathrm{w}_0 \mathrm{x}_0 + \mathrm{w}_1 \mathrm{x}_1 + \mathrm{w}_2)}}$

A 

B 

C 

D 

Answer Key

1. a	2. a	3. a, b, c, d	4. topo
5. reverse topological	6. d	7. c	8. a