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MET CS 526-O2

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**Problem 1**

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6

3

2

4

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6

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3

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9

6

Going left to right and moving bottom to top, we get the following arithmetic expression:

{[(6+2)-3]+(2\*4)}+{(9-6)\*(6/3)}

In solving the above expression, we will get:

{[8-3]+8}+{3\*2}

(5+8)+6

13+6 = 19

Therefore, the value of the expression is 19.

**Problem 2**

((16 / (12 - (2 \* 4))) - (3 \* (5 - 4)))

Diagram, schematic

Description automatically generated

A

B

C

D

H

I

E

F

J

L

K

G

**Problem 3**

The sequence of nodes (characters) generated by preorder tree traversal is as follow:

A B D I E J L C F K G H

**Problem 4**

The sequence of nodes (characters) generated by postorder tree traversal is as follow:

I D L J E B K F G H C A

**Problem 5**

The sequence of nodes (characters) generated by breadth-first tree traversal is as follow:

A B C D E F G H I J K L

A

B

C

D

G

H

E

F

I

K

J

**Problem 6**

The sequence of nodes (characters) generated by inorder tree traversal is as follow:

H D B I E J A K F C G