Tuesday 24th, March, 2020.

UPPER SIXTH (U6) COMMERCIAL

**INFORMATION AND COMMUNICATION TECHNOLOGY (ICT)**

**REVISION**

Answer the question below in relation to the flow chart given in figure 1 below

 Begin

 STEP 1 Provide two numbers **x** and **y**

 STEP 2 y = 0?

 STEP 3

 Division by zero

 STEP 4 z = x/y

 STEP 5 Print x, y and z

 End

1. Define the term algorithm
2. Explain briefly each of the steps, 2, 3 and 4 indicated in the figure above
3. Represent the algorithm in the flow chart using pseudo code

**Answers**

1. See notes
2. Step 2: Decision is made: if y =0, step 3 is executed else step 4

Step 3: Message “Division by zero” is displayed.

Step 4: Computes or calculate x/y and assign it to zero

1. Begin

 Get two numbers x, y

 If y = 0

 Print “Division by zero”

Else

 Set Z to x / y

 Print x, y, z

**End**

**Exercise**

Below is an algorithm with each line of instruction numbered on the left:

1. Begin
2. Give the price of items, A
3. Give the number of items bought, s
4. If S< 10 then
5. Total = A × S ̶ 100
6. Else
7. Total = A × S ̶ 300
8. Print Total
9. End

**Questions**

1. **State briefly what the algorithm does (3mks)**
2. **State two types of control structures used in the algorithm (2mks)**
3. **Determine the output if the values of A = 300 and S = 3 (3mks)**
4. **Represent the algorithm above using a flow chart (6mks)**

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