**FORM ONE**

**MARKING SCHEME**

**TERM 3, 2023**

1. Name three causes of syntax errors
* Misspelling of user defined words and reserved words
* Improper punctuation
* Grammatical mistakes
* Improper naming of variables

Award 1 mark each max 3

1. Define the following terms as used in Computer Programming
2. Machine dependent
* Means that a program cannot be moved or transferred and used in another machine except the one it was designed for
1. Bug
* It simply refers to a computer error

Award 2marks each max 4

1. Study the Pseudo code below and answer the questions that follows.

Begin

Input Y, X

 Check if Y and X > 0 Then else go to step 9

 Multiply Y and X

 Is product > 20 then?

 Display Product

 Repeat step 2, 3,4,5,6

 Else go step 9

 Stop

1. Draw a flowchart for the pseudo code above

N1, N2

N1 and N2 > 0

P = N1 \* N2

P> 20

P

Start 1mark

Stop 1mark

Input N1,N2 1mark

N1and N2 >0 1mark

P=N1\*N2 1mark

P>20 1mark

Display P 1mark

Logic 1mark

 No

 Yes

 Yes No

17.

1. Study the table below and answer the questions that follow

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | A | B | C | D | E | F | G |
| 1 | Product ID | Product Name | ReceivedQuantity  | SoldQuantity  | BalanceStock | Unit Price | Total  |
| 2 | PW00012 | Ball  | 1000 | 300 | 700 | 60 |  |
| 3 | PW00023 | Ruler | 200 | 150 | 50 | 50 |  |
| 4 | PW00045 | Pen | 130 | 130 | 0 | 10 |  |
| 5 | PW00029 | Bread | 400 | 200 | 200 | 50 |  |
|  | GRAND TOTAL |  |  |

1. Write down the formula that

Calculate the balance stock

* =C2-D2

Award 2 marks max 2

Calculate the Total cost

* =D2\*F2 / Product (D2 , F2)

Award 2 marks max 2

1. Given that customers who purchased Rulers were allowed 10% trade discount write a formula that would be used to get the Total cost (2mark)
* =0.9(F3\*D3)

Award 2marks max 2

1. Use named reference to calculate the Grand Total
* Rename cells (G2:G5) as total
* =SUM (total)

Award 1 mark each max 2

1. State two differences between DOS and Windows based Operating system

|  |  |
| --- | --- |
| DOS | Window-based operating system |
| * Requires less memory
 | * Requires high memory
 |
| * Command is typed at the command prompt
 | * Command is selected on an icon on the screen
 |
| * Requires a screen of low resolution
 | * Requires screen of high resolution
 |
| * Execute faster
 | * Execute slowly
 |

 max 4

(c ) State three reasons why computer technicians prefer using the command line operating system when troubleshooting a computer

* Work well with screens of low resolution
* Executed very fast
* Requires low memory

Award 1 mark each max 3

18.

1. List two types of domain names given to institutions of learning
* .ac
* .sc
* .edu

Award 1 mark each max 2

1. Explain the function of each button on the navigation toolbar of a web browser
2. History
* Provides a list of sites visited by the user
1. Home
* Takes the user to the homepage of the web browser
1. Download
* Provides a list of files downloaded from the internet

Award 1 mark each max 3

1. Peter Kenneth bought a PC for his personal use at home. He wanted to do online writing at home to earn a living but there was no internet connectivity at home. Mention three internet connectivity requirement Peter Kenneth need to consider to get full internet connectivity
* Internet service provider
* Transmission media
* MODEM
* Internet software

Award 1 mark each max 3

1. Give three reasons to justify why companies like Alibaba, Kilimall, Jumia, Copia and Masoko prefer selling their products on e-commerce platforms.
* Provides a wide range of products to the user
* Cost effective since the overhead cost is low
* Affordable advertisement
* Flexible in terms of sales

Award 1 mark each max 3

1. Describe three factors to consider when choosing a file organization method
* Frequency of update: A file that needs to be updated every now and then needs an organization method that will allow easy retrieval of information and ease of updating, example of such a file is the transaction file
* File access method: Definitely different files have different methods of being accessed, example a reference file is accessed using random method for easy retrieval of data.
* Cost it is essential that a cost benefit analysis be conducted because different files will require different cost
* Storage media –Different file design use different media

Award 1 mark each max 2

1. State two challenges facing electronic data processing modes in the current society
* Security threats
* It is power dependent
* Lack of legal frameworks
* Lack of ICT knowhow

Award 1 mark each max 2

19.

1. Convert the following numbers
2. 7.562510 to Binary

Whole number part

7=1112 ................................... 1mark

Fraction part

0.5625\*2=1.125

0.125\*2= 0.25 ............................1mark

0.25\*2= 0.5

0.5\*2= 1.0

=0.10012 ..........................................1mark

Ans=111.10012 1mark ..........................................1mark

1. DDFF3416 to Binary (3marks)

D D F F 3 4

13 13 15 15 3 4