**NAME………………………………………………….. ADM NO……………………..**

**451/1**

**COMPUTER STUDIES Class…………**

**PAPER 1**

**(THEORY)**

**2 ½ Hours**

**Term two**

**Form three**

**Instructions to Students**

1. *Write your name and index number in the spaces provided at the top of this page.*
2. *Sign and write the date of examination in the spaces provided above.*
3. *This paper consists of* ***TWO*** *sections;* ***A*** *and* ***B****.*
4. *answer* ***ALL*** *the questions in section* ***A***
5. *Answer question* ***12*** *and any other* ***THREE*** *questions from section* ***B****.*
6. Cheating in this exam will not be encouraged
7. *All answers should be written in the spaces provided on the question paper.*
8. ***Students should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.***

**For Official Use Only**

|  |  |  |
| --- | --- | --- |
| **Section** | **Question** | **Score** |
| **A** | 1 -11 |  |
| **B** | 12 |  |
| 13 |  |
| 14 |  |
| 15 |  |
| 16  **Total** |  |
|  |

**This paper consists of 8 printed pages**

**SECTION A (40MARKS)**

1. State any three functions of a computer (3marks)
2. Name four group of computers when classified according to physical size (4marks)
3. Give two reasons why smaller computers like Laptops tend to be more expensive than Desktop computers (3marks)
4. State three causes of system registry failure (3marks)
5. State and explain two type of editing modes (4marks)
6. List three classification of operating system according to user interface (3marks)
7. Name four methods of organizing files on storage media (4marks)
8. Use Two’s compliment to subtract 101 from 1000: (3marks)
9. Name and explain any two types of queries found Microsoft Access (4marks)
10. State three types of cell referencing used in Ms excel (3marks)
11. Explain the following terms
12. Internet protocol(2marks)
13. Browser(2marks)
14. Hyperlinks (1marks)
15. Website (1 mark)

**SECTION B (60 MARKS)**

1. Computer system is made up of hardware, software and live ware for it to be able to perform and accomplish assigned tasks.
2. Giving one example each explain the following term as used in computer
3. Softcopy device (2marks)
4. Hard copy device (2marks)
5. Explain the following terms
6. Pixel (2marks)
7. Colour depth (2marks)
8. Display size (2marks)
9. Explain the term warranty (2marks)
10. Discuss three qualities of a good warranty (3marks)
11. With the advancement in computing, internet has become a useful to many.
12. Give three challenges of internet (3marks)
13. Name the two most common protocols for the Internet, and state their functions (4marks)
14. Write the following terms in full (5marks)
15. HTML
16. GPRS
17. URL
18. WWW
19. IP
20. Name three software required to be installed in a computer to access internet services (3marks)
21. Computer accepts users, input and convert them to desired output through a data processing cycle
22. Explain the term data processing cycle (2marks)
23. State four stage of data processing cycle(4marks)
24. Explain the following types of errors (4)
25. Transcription errors
26. Computational errors
27. Name two type of computer processing files (2marks)
28. Give three advantages of computer filling (3marks)
29. Study the worksheet below and answer the questions that follow:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | A | B | C | D | E | F |
| 1 |  |  |  |  |  |  |
| 2 | SKYWAYS AGENCIES | | | | | |
| 3 | PRODUCT | REGION 1 | REGION 2 | REGION 3 | REGION 4 | TOTAL Sale |
| 4 | Rexona | 3400 | 3,700 | 4000 | 4100 |  |
| 5 | Lifebuoy | 2500 | 2600 | 2100 | 2500 |  |
| 6 | Omo | 6000 | 6100 | 6300 | 1600 |  |
| 7 | Ushindi | 1200 | 1500 | 1400 | 6400 |  |
| 8 | Carmel | 7000 | 6900 | 7200 | 8000 |  |
| 9 | Total |  |  |  |  |  |
| 10 | Maximum |  |  |  |  |  |
| 11 | Average |  |  |  |  |  |

1. Write functions that can be entered to get total, maximum, and average of

each region. (6 mks)

1. Write down the function that returns the number of sales in the four regions whose value is greater than or equal to 2000. (1mark)
2. The function = sum (B4:E4) is entered at F5 and then copied to F8. Write down the function as it appears in the destination cell. (2mks)
3. State the use of: (2mks)
4. A pie chart
5. A line graph
6. Give four advantages of electronic spread sheet over manual (4marks)
7. Define the following terms (6marks)
8. Binary
9. Source code
10. Object code
11. Differentiate between an interpreter and compilers (6marks)
12. Using twos complement calculate (3marks)

63-15 in binary form