**HOLA SECONDARY SCHOOL**

**MID TERM EXAMINATION**

**COMPUTER**

**YEAR 2014**

**TERM ONE**

**FORM 3**

**PAPER 1**

**TIME: 2 HOURS 30 MINUTES**

**NAME\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_CLASS\_\_\_\_\_\_\_\_\_ADM/NO.\_\_\_\_\_\_\_\_\_\_\_**

**INSTRUCTIONS: ANSWER ALL QUESTIONS IN THS SECTION.**

1. Define the operating system. (2mks)
2. State three functions of operating system. (3mks)
3. Differentiate between single user and multi – user operating system. (4mks)
4. Outline the procedure when renaming a file or a folder. (5mks)
5. Distinguish between a shell and a kernel. (2mks)
6. Name two examples of graphical user interface. (2mks)
7. State the procedure when deleting a document. (4mks)

8a) What is disk partitioning. (2mks)

b) Give two reasons for partitioning a disk. (2mks)

9a) Explain the term computer virus. (2mks)

b) State two ways through which computer viruses may be controlled. (2mks)

10a) What is meant by the term e-learning. (1mk)

b) School intends to set up an e-learning system. List three problems that are likely to be encountered. (3mks)

11. Name the two most common protocols for the internet. (2mks)

12a) Identify the parts of the following e-mail address labeled A, B, C and D. (4mks)

**SECTION B (60 MARKS)**

**Answer questions 14 and any other three questions from section B.**

14a) With an aid of a diagram, explain the difference between a digital signal and an analogue signal. (2mks)

b) Explain each of the following computer terminologies used in data representation. (4mks)

1. Bit
2. Byte
3. Nibble
4. Word

c) State two reasons for using binary in digital technology. (2mks)

d) Distinguish between Binary and Octal number systems and give an example of each. (4mks)

e) Perform the following computer arithmetic. In each case, show how you arrive at your answer.

1. Convert 4510 to its Binary equivalent. (2mks)
2. Convert 7678 to hexadecimal equivalent. (4mks)

III) Write the following abbreviations in full. (2mks)

1. BTT
2. BCD

15a) Define the following terms. (6mks)

1. Data
2. Information
3. Data processing
4. Explain the stages of data processing cycle. (8mks)

16a) Explain 4 types of computer viruses. (8mks)

b) Name five security threats. (5mks)

c) Outline four computer crimes. (4mks)

1. Define data integrity. (2mks)

17a) What is the meaning of a printer. (2mks)

b) Name five types of impact printers. (5mks)

c) Outline the factors to consider when selecting a printer. (5mks)

d) Distinguish between line printer and a page printer. (2mks)

1. Explain the three functional elements of the CPU. (6mks)

18) Explain three characteristics of secondary storage. (6mks)

b) State four advantages and three disadvantages of magnetic tapes. (7mks)

ci) Differentiate between removed and fixed storage devices. (2mks)

1. Name five forms of compact disk (CD). (5mks)