**NAME: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ADM NO: \_\_\_\_\_\_\_\_\_\_\_\_CLASS:\_\_\_\_\_\_\_\_\_\_**

**DATE: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ SIGN: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_TARGET\_\_\_\_\_\_\_\_\_\_\_**

**COMPUTER STUDIES**

**FORM THREE**

**MID TERM EXAM**

**TERM 1, 2024**

**INSTRUCTIONS: (Answer all the questions) TIME: (1h 30min)**

1. With the aid of a diagram differentiate between analog and digital data. 6mks
2. Define the following terms
3. Amplitude 3mks
4. Frequency 3mks
5. Periodic time 3mks
6. Distinguish between
7. Byte and nibble 2mks
8. Convert the following base two numbers into denary (base 10) numbers. 18mks
9. 01012
10. 11112
11. 101011011102
12. 101111112
13. 10110012
14. 1110001112
15. Using the place value and long division methods convert each of the following base 10 numbers to their binary equivalents. 18mks
16. 1010
17. 4310
18. 36510
19. 51210
20. 14310
21. 95410