MARKS HERE

**TERM 2 YEAR 2024 MID TERM EXAM**

**FORM THREE COMPUTER STUDIES Time: 2 Hrs**

**INSTRUCTIONS: ANSWER ALL QUESTIONS**

1) Define the term data integrity. (2mks)

2) State three ways of minimizing threats to data integrity. (3mks)

3 (a) i. Subtract 1102 from 110102 (2mks)

ii. Find the sum of binary number 101.1012 and 110.1002  (3mks)

iii. Convert binary number 11010110.10012 into octal number. (3mks)

iv. Convert binary number 11010110.10012 into hexadecimal number. (3mks)

4. Convert the following numbers to their decimal equivalent. (6mks)

i. 0.110112

ii. 11.0112

5. Convert 3BD16 to Octal. (3mks)

6. using one’s complement, calculate 510 – 910. Use six bit in your calculation. (3mks

7. State at least four advantages of storing data in computer files over the manual filing system (3mks)

8. With aid of a diagram highlight four main stages of data processing. (6mks)

9. Discus five stages of data collection (10mks)

10. Define the following elements of a computer file. (3mks)

i. Character

ii) Field

iii) Record