S.2 END OF TERM TWO EXAMS 2024

MATHEMATICS

Attempt all questions

**SECTION A**

1. Convert to the binary base
2. Convert 224five to base three.
3. Solve for y,
4. Find the product of the following
5. 0.22x 1.33
6. 1.1112 x0.23
7. Joshua sat a test of 25 questions and got 20 questions correct. Find the percentage of the,

(i) Correct score

(ii) Failed score

1. Simplify
2. After a mathematics lesson Ritah and Rebecca decided to design an addition table in base five as shown below.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| + | 0 | 1 | 2 | 3 | 4 |
| 0 |  |  |  |  |  |
| 1 |  |  |  |  | 10 |
| 2 |  |  |  |  |  |
| 3 |  |  |  | 14 |  |
| 4 |  |  |  |  |  |

1. Help Ritah and Rebecca to complete the table above
2. Express 720 in terms of its prime factors.
3. Find the lowest common multiple and the highest factor of the following;
4. 12 and 18
5. 98 ,48 and 12
6. Robert had a debt of sh. 16,000/= at the school canteen. On visitation day, his parents gave him sh. 9,500/=. If he used all the money to pay the debt, how much money did he remain with?

END