S.1 END OF TERM II ASSESSMENT 2023

MATHEMATICS

TIME: 2 hours

INSTRUCTIONS: Answer all the questions in both sections.

SECTION A

1. A No.3 bus leaves the Bus station every 6 minutes, a No.5 every 8 minutes and a No.8 every 9 minutes. All three leave the bus station at 8:00 a.m. How long will it be before all three bus services leave together?

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   ………(04)

1. What is the place value of zero in 505_{eight} hence convert 505_{eight} to base five

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2. There three math assignments, calculate the pass mark for each assignment if for one pass he has score 75% or more

Assignment	Total Marks	Pass mark
1	80	
2	60	
3	120	

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……(04)

3. If $x = 4$ and $y = 5$, find the values of $xy + \dfrac{x}{y}$

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4. In a box of 80 apples, 20% of them are Red and the rest are green. How many red and green apples are there in the box?

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5. Work out $(10\% \ of \ 160) + (55\% \ of \ 80)$

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6. a) The number **A** is smaller than 13 and the number **M** is greater than 20. Arrange the numbers 18, **A** and **M** in order staring from the largest.

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   b)

Decide if the following are true or false	
a) $\frac{1}{3} \div 4 = 4 \div \frac{1}{3}$	....
b) $6 \div \frac{1}{2} = 3 \div \frac{1}{4}$	....
c) $\frac{2}{5} \div 3 = \frac{3}{5} \div 2$	....

7. Without using a calculator work out $\frac{0.36 \times 0.4}{0.09 \times 0.2}$.

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8. John, Jackie and Jordan took part in family quiz at home. The greatest possible score was 40 marks. John got 16 out of 40, Jackie got 35% of the score of 40 and Jordan got $\frac{3}{8}$ of the score of 40. Who won the quiz?

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9. Complete the following by adding brackets to make the answer to the expression correct.
   - $13 - 5 + 4 - 2 = 6$
   - $4 + 3 \times 3 + 2 = 35$
   - **$6 + 8 - 2 + 1 = 11$**
   - **$12 + 4 \div 5 - 1 = 4$**   **(04)**

10. If there are 59,996 books in a library. In adult section their 38,772 books while junior section has 18,387. The rest are in reference section. Calculate how many books are in the reference section in words.

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12. Write down all;
i) Multiples of 4 between 5 and 40

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ii) Factors of 100 between 0 and 60

1. ....

13. John, Jackie and Jordan took part in family quiz at home. The greatest possible score was 40 marks. John got 16 out of 40, Jackie got 35% of the score of 40 and Jordan got $\frac{3}{8}$ of the score of 40. Who won the quiz?

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END