Name: ....

Stream: ....   Signature: ....

S.1 END OF TERM 1 EXAMINATIONS, 2017

MATHEMATICS

Senior One

1 HOUR: 30 MINUTES

INSTRUCTIONS TO STUDENTS:

- *Attempt all questions.*
- *All the necessary calculations must be shown on the answer sheets provided.*
- *Be neat and careful in your presentation. Untidy work will not be marked.*

1. Express:-

    (i) $4\frac{3}{4}$ as a decimal.   (02 marks)

    (ii)   0.375 as a fraction in its simplest form.   (02 marks)

2. (a). Lists down the multiples of **12** between **36** and **90**.   (02 marks)

    (b).List all the set of factors of **36**.   (02 marks)

3. Given the sets P = {1,3,5,6,8,10,13,14} and Q = {2,4,6,8,9,10,12}   Find:

    (i)   n(P)   (ii)   n(Q)   (iii)   PuQ   (iv)   n(PuP)   (04 marks)

4. Express $0.41\dot{1}\dot{8}$ as a fraction in its simplest form.   (04 marks)

5. (a). Write:
    (i)   54,962.in words.

    (ii)   Three million four hundred sixty two thousands and seven.in figures.

    (b). without using calculate divide 6347.56 by 5.6   (04 marks)

6. (a)   The number of tourists arriving from European countries to Uganda rose from
          32,000 in 2009 to 41,000 in 2010.Express this increase as a percentage.
                                                                                  (04 marks)
    (b) (i)   Find 12% of sh 48,000/=.
         (ii)   Write 35% as a fraction in its lowest term.   (04 marks)
    (c)   The number of girls in S.1D is 48 making a percentage of 60% of the
          population of the class.

          (i).   Determine the number of the students in the class.

          (ii).   Find the number of boys in the class.   (04 marks)

7. Given the sets A = {$factors\ of$ 90} and B = {$prime\ factors\ of$ 110}
   (a) List the members of set A and set B.
   (b) Represent the two sets on the Venn diagram.
   (C) Find:
         (i). n(AuB)   (ii).   n(AnB)   (iii).   n(B) only,   (12 marks)

8. (a) By using a number line evaluate these.
      (i).   5 - 7 + 6   (ii).   ⁻4 + 8 - 3   (06 marks)
   (b) Workout:
      (i).   (⁻4+⁻2) ÷⁻3
      (ii).   (⁻6 -⁻2) x⁻3   (06 marks)

9. (a) Workout: $110_{five}÷3_{five.}$
   (b) Workout: $341_{five}-134_{five}.$ And give your answer in base six. (12 marks)

10. Akech and Ayugi shares shillings 24,000/=.Akech gets $\frac{4}{7}$ of the money.
    (a) What fraction and amount does Ayugi get?   (05 marks)
    (b) How much does Akech get?   (05 marks)
    (c) Express the amount of money got by Ayugi as a percentage of the total
        amount of money.   (04 marks)

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