

NAME: ADM. NO:

CANDIDATE'S SIGNATURE: DATE:

121 - ALT A
MATHEMATICS
FORM 3 END OF TERM EXAMINATIONS
MARCH-2018 TERM 1
TIME: 60 MIN

CANDIDATE'S SCORE

FOCUS A365

Another Manyamfranchise.Com Evaluation Test

ST. CLARE GIRLS HIGH SCHOOL - GATUNDU

P.O BOX 327 - 01030 GATUNDU

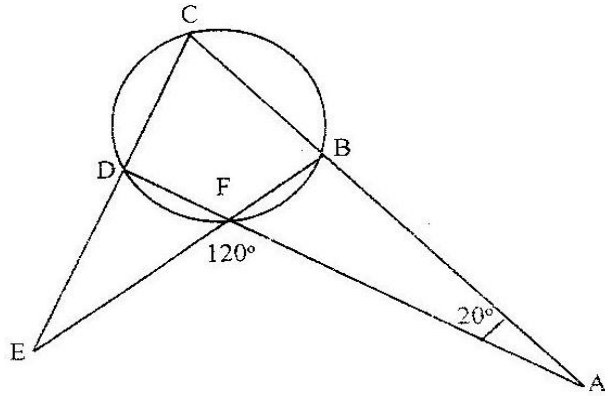
0735 447279 gatitusecondary@gmail.com

Kenya certificate of secondary education (K.C.S.E) Assessment Test

Answer All Question Provided In This Question Paper (30 MARKS)

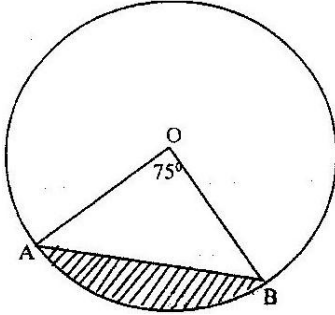
- 1 Omondi has 6 cans of regular soda and 15 cans of diet soda. He wants to create some identical refreshment tables that will operate during the Gor Mahia football game. He also doesn't want to have any sodas left over. What is the greatest number of refreshment tables that Omondi can stock? 2 mks

- 2 In the diagram below $\angle CAD = 20^\circ$, $\angle AFE = 120^\circ$ and $BCDF$ is a cyclic quadrilateral. Find $\angle FED$. **3 mks**



- 3 By correcting each number to one significant figure, approximate the value of 788×0.006 . Hence calculate the percentage error arising from this approximation. **3 mks**

- 4 The figure below represents a circle a diameter 28 cm with a sector subtending an angle of 75° at the centre. **4 mks**



Find the area of the shaded segment to 4 significant figures (take $\pi=3.142$)

- 5 The length of a rectangular mat is $1\frac{1}{2}$ m longer than its width. Find the length of the mat if its area is $4\frac{1}{2}\text{m}^2$ **2 mks**

- 6 Two sides of a triangular field are 21 m and 32 m long. Its area is 240m^2 . The angle between two sides is obtuse. Determine this angle.

3 mks

- 7 Evaluate;

$$\frac{\log 5^5 - \log 5^4}{\log 4^{\frac{1}{5}} - \log 5^{\frac{1}{4}}}$$

Giving the answer to 4 significant figures.

2 mks

- 8 Solve for x in the equation

$$2 \log_{10} x + \log_{10} 5 = 1 + 2 \log_{10} 4$$

4 mks

- 9 Sato withdrew some money from a bank. He spent $\frac{3}{8}$ of the money to pay for Njeri's school fees and $\frac{2}{5}$ to pay for Kigen's fees. If he remained with Ksh 12, 330, calculate the amount of money he paid for Kigen's school fees. **4 mks**

- 10 A minibus covered a distance of 180km at an average speed of 90km/hr. It travelled at a speed of 80km/hr for $\frac{2}{3}$ of its journey. At what speed did it travel the remaining part of the journey? **3 mks**

END OF PRINTED PAGES