CELLULE D'APPUI A L'ACTION PEDAGOGIQUE ANTENNE RÉGIONALE DU NORD OUEST

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REPUBLIC OF CAMEROON Peace-Work-Fatherland

MINISTRY OF SECONDARY EDUCATION

TEACHERS' RESOURCE UNIT REGIONAL BRANCH FOR THE NORTH WEST

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MARCH 2019

The Teachers' Resource Unit and the Regional Inspectorate of Pedagogy, in collaboration with MTA	SUBJECT CODE NUMBER 0570	PAPER NUMBER 1
GENERAL CERTIFICATE OF EDUCATION REGIONAL MOCK EXAMINATION		
CANDIDATE NAME: CANDIDATE NUMBER:	SUBJECT TITLE MATHEMATICS	
CENTRE NUMBER:		
ORDINARY LEVEL	DATE Thursday 28 th March 2019 Morning	

Time Allowed: One and a half hours INSTRUCTIONS TO CANDIDATES:

Mobile phones are **NOT ALLOWED** in the examination room.

- 1. USE A SOFT HB PENCIL THROUGHOUT THIS EXAMINATION.
- 2. DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.

Before the Examination begins:

- 3. Check that this question booklet is headed "Ordinary level -0570 code and subject title-Mathematics -Paper 1".
- 4. Insert the information required in the spaces above.
- 5. Without opening the booklet, pull out the answer sheet carefully from inside the front cover of this booklet. Take care that you do not crease or fold the answer sheet or make any marks on it other than those asked for in these instructions.
- 6. Insert the information required in the spaces provided on the answer sheet using your HB pencil:

Candidate Name, Centre Number, Candidate Number, Subject Code Number, and Paper number

How to answer questions in this examination:

- 7. Answer ALL the 50 questions in this examination. All questions carry equal marks.
- 8. Non-programmable calculators are allowed.
- 9. For each question there are four suggested answers, A, B, C and D. Decide which answer is correct. Find the number of the question on the Answer Sheet and draw a horizontal line across the letter to join the square brackets for the answer you have chosen. For example, if C is your correct answer, mark C as shown below:

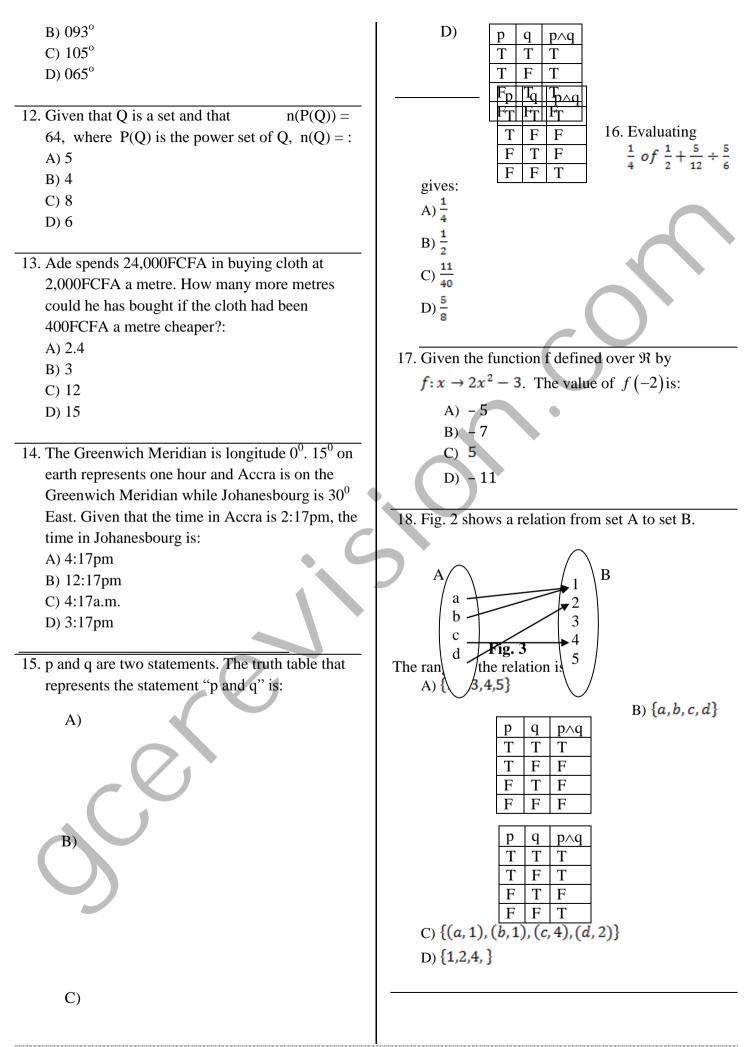
$[A] \quad [B] \quad [\underline{\mathbf{G}}] \quad [D]$

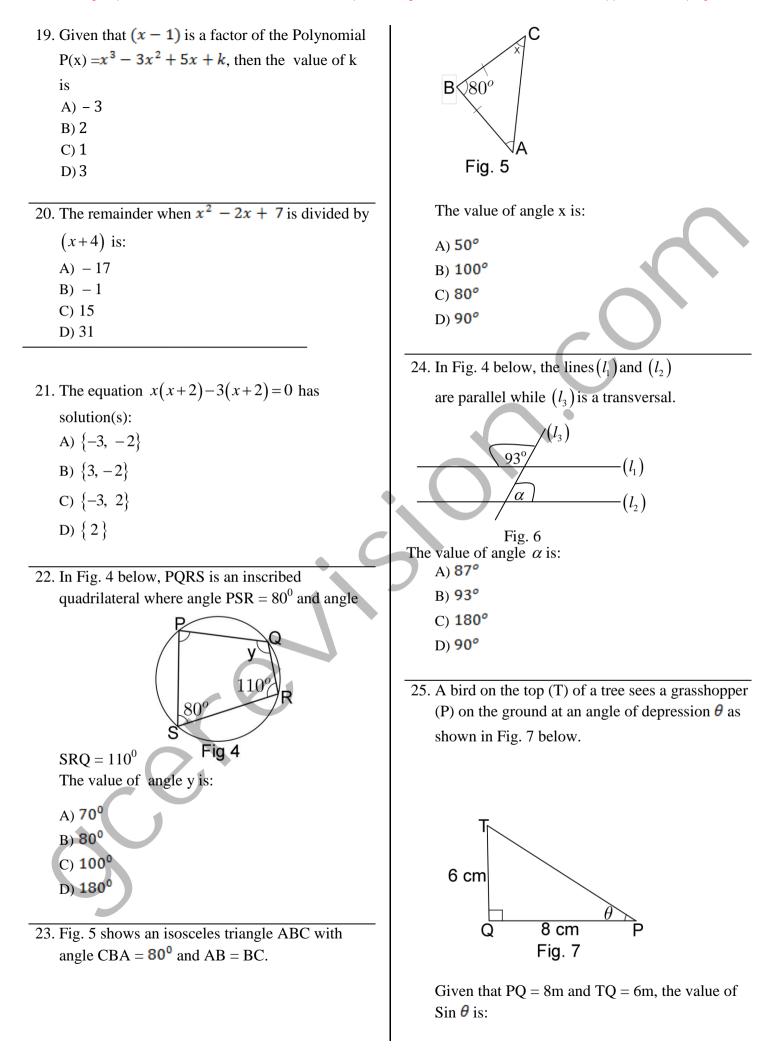
- 10. .Mark only one answer for each question. If you mark more than one answer, you will score zero for that question. If you change your mind about an answer, erase the first mark carefully, and then mark your new answer.
- 11. Avoid spending much time on any question. If you find a question difficult, move to the next question. You can come back to this question later.
- 12. Do all rough work in this booklet using, where necessary, the blank spaces in the question booklet.
- 13. You must not take this booklet and answer sheet out of the examination room. All question booklets and answer sheets will be collected at the end of the examination.

A) 50,000FCFA

B) 550,000FCFA 1. The value of the digit 5 in the number 25821 is: C) 500,000FCFA A) 5 units D) 450,000FCFA B) 5 thousands C) 5 tenths 8. The monthly salary (S) of a worker is directly D) 5 thousandths proportional to the number of hours (H) of work he puts in. When he puts in 90 hours, his salary 2. The number 0.0031492 corrected to 3 significant is 135,000FCFA. Suppose he puts in 162 hours, figures is: his salary will be: A) 0.003 A) 270,000FCFA B) 0.00314 B) 243,000FCFA C) 0.00315 C) 180,000FCFA D) 3.1492 × 10⁻³ D) 150,000FCFA 3. The number 631927 expressed in standard form 9. On a map with scale of 1:200,000 two towns is: are12.35cm apart. The actual distance between A) 6.31927 × 10⁵ the two towns is : B) 6.31297×10^{-5} A) 61.75km C) 63.1927 × 10⁴ B) 6.175km C) 2.47km D) 6.3 × 10⁵ D) 24.7km If -7 is added to half a certain number, the sum 10. Fig. 1 is a Venn diagram that represents the is -2. The number is: relationship between two sets A and B. A) 5 B) 10 B C) - 5D) – 10 5. The value of $(-2)^3 + 1$ is: Fig. A) - 5B) 9 The shaded region could be described as: C) 4 A) B[/] D) – 7 B) A C) $\mathbf{A}' \cap \mathbf{B}$ D) $A \cap B'$ 6. Given that $p = 2^n \times 3$ and that 11. Fig. 2 shows three towns W, X and Y. W and Y $q = 2 \times 3^{n-1} \times 7$ where $n \in \mathbb{N}^*$, the greatest are equidistant from X. common divisor of p and q is: A) 2 B) 3 C) $2^n \times 3^{n-1}$ D) 6 Fig. 2 7. Mr. Tombali bought a piece of land for The bearing of Y from W is: 500,000FCFA and later sold it making a profit A) 022°

of 10%. The selling price of the land was:





A) $\frac{3}{5}$	
B) $\frac{3}{4}$	
C) $\frac{4}{5}$	
D) $\frac{5}{3}$	
26. The value of the angle 2)

26. The value of the angle 270⁰ in radians is: A) $\frac{1}{2}\pi$ B) $\frac{3}{2}\pi$ C) $\frac{270}{\pi}$

D) 2π

27. The solution of the inequality $2x - 3 \le 5$ is

A) $2x \le 8$ B) $x \ge 4$ C) x < 4D) $x \le 4$

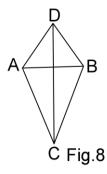
28. The expression $x^2 - (2x-3)(2x+3)$ when expanded and simplified gives: A) (3+x)(3-x)B) $-3(3+x^2)$

C) $3(3-x^2)$

D)
$$3(3+x^2)$$

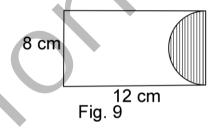
29.
$$m = \frac{v^2 - 3k}{2v + 2k}$$
. The value of m for which
 $v = -2$ and $k = -1$ is:
A) $\frac{5}{6}$
B) $\frac{-5}{6}$
C) $\frac{11}{6}$
D) $\frac{-11}{6}$

30. Fig.8 represents a kite with diagonals AB =8cm and DC=20cm



The area of the kite is:

- A) 160 cm^2
- B) 80 cm^2
- C) 40 cm^2
- D) 28 cm^2
- 31. A rectangular sheet of paper of sides 12cm by8cm has a semi- circular piece cut out of it asshown in Fig. 9 below.



The area of the unshaded portion in terms of π is:

- A) 96 πcm^2
- B) $8(12 \pi) cm^2$
- C) $8 \pi cm^2$
- D) 64 πcm^2

32. Consider the sequence 9, 13, 17, 21, The 10th term of this sequence is:

- A) 270
- B) 45
- C) 27
- D) 4

33. The numbers 9,y,36 are consecutive terms of a geometric progression. The value of y is:A) 4B) 18

C) 22.5

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	40. The value of $r \neq 2$, that satisfies the relation
34. The midpoint of the line segment joining the	
points P(6, - 3) and Q(18, 15) is the point with	$\frac{5}{r-2} - \frac{1}{2} = 2$ is:
coordinates:	A) 4
A) (- 6, 6)	
B) (12, 12)	B) $\frac{16}{3}$
C) (12,6)	C) 12
D) (- 6, - 9)	D) 0
2)((0, 2)	D) 0
35. The area of the triangle whose vertices are at the	41. Given the matrix equation
points P(0, 0), Q(0, 4) and R(2, 0) is:	-
A) 16 square units	$\begin{pmatrix} 2 & 3 \\ 7 & 5 \end{pmatrix} = \begin{pmatrix} 2 & 3 \\ 7 & y - 2 \end{pmatrix}$
B) 4 square units	
C) 8 square units	The value of y is:
D) 6 square units	
D) o square units	A) 5
36. The line L: $y = 2x - 20$ cuts the x-axis at a point	B) – 7
whose coordinates are:	C) 7
A) (0, 10)	D) 9
B) (10, 0)	
C) (0, -20)	42. The matrix M is of order $4 \times 2n - 1$ and matrix
D) (- 10, 0)	N is of order 5×3 . The value of n for which the
	produce MN is possible is:
37. The gradient of the line $2x+3y-15=0$ is:	A) 3
A) 5	B) 2
$B)\frac{2}{3}$	C) 5
	D) 4
C) $\frac{-3}{2}$	
-2	43. The transpose of matrix $M = \begin{pmatrix} 2 & 3 \\ 5 & 1 \end{pmatrix}$ is:
$D) \frac{1}{3}$	· · · · · · · · · · · · · · · · · · ·
	$A)\begin{pmatrix} 1 & -3\\ -5 & 2 \end{pmatrix}$
38. The equation of the line which is perpendicular	
to the line $y = 2x + 3$ and passes through the	B) -13
point $(-3, 1)$ is:	C) $\begin{pmatrix} 2 & 5 \\ 3 & 1 \end{pmatrix}$
A) $x + 2y + 1 = 0$	D) $\frac{1}{-3} \begin{pmatrix} 1 & -3 \\ -5 & 1 \end{pmatrix}$
B) $x - 2y + 1 = 0$	$D) = \frac{1}{-3} \begin{pmatrix} -5 & 1 \end{pmatrix}$
C) $2x + y + 5 = 0$	
	44. A triangle ABC with vertices A (2, 5), B (5, - 2)
D) $x + 2y - 5 = 0$	and C $(0, -1)$ is reflected along the y-axis to give
	the image triangle A'B'C'. The coordinates of
39. Given that the lines $3x+6y+5=0$ and	the vertices of A'B'C' are:
2x+ky-13=0 are parallel, the value of k is:	A) A'(-2, 5), B'(-5,-2), C'(0, -1)
A) $\frac{1}{2}$	B) A'(-2, 5), B'(5,2), C'(0, 1)
B) 2	C) $A'(-2, 5)$, $B'(-5,2)$, $C'(0, 1)$
	D) $A'(2, 5), B'(-5, 2), C'(0, 1)$
C) 4	D = (2, 3), D = (-3, 2), C = (0, 1)
D) – 1	Fig. 10 below represents a connected network

