

GENERAL CERTIFICATE OF EDUCATION BOARD**General Certificate of Education Examination****JUNE 2025****ORDINARY LEVEL**

Centre Number	
Centre Name	
Candidate Identification Number	
Candidate Name	

Mobile phones are NOT allowed in the examination room.**MULTIPLE CHOICE QUESTION PAPER****Duration: One and a Half Hours****INSTRUCTIONS TO CANDIDATES**

Read the following instructions carefully before you start answering the questions in this paper. Make sure you have a soft HB pencil and an eraser for this examination.

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

Before the examination begins:

- Check that this question booklet is headed "ORDINARY LEVEL – 0570 MATHEMATICS 1".
- Fill in the information required in the spaces above.
- Fill in the information required in the spaces provided on the answer sheet using your HB pencil:
Candidate Name, Exam Session, Subject Code and Candidate Identification Number.
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.

How to answer the questions in this examination

- Answer **ALL** the 50 questions in this Examination. All questions carry equal marks.
- Non-programmable Calculators are allowed.**
- Each question has **FOUR** suggested answers: **A, B, C** and **D**. Decide which answer is appropriate. 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] [B] **[C]** [D]

- Mark only one answer for each question. If you mark more than one answer, you will score a zero for that question. If you change your mind about an answer, erase the first mark carefully, then mark your new answer.
- Avoid spending too much time on any one question. If you find a question difficult, move on to the next question. You can come back to this question later.
- Do all your rough work using the blank spaces in the question booklet.
- At the end of the examination, the invigilator shall collect the answer sheet first and then the question booklet. DO NOT ATTEMPT TO LEAVE THE EXAMINATION HALL WITH IT.**

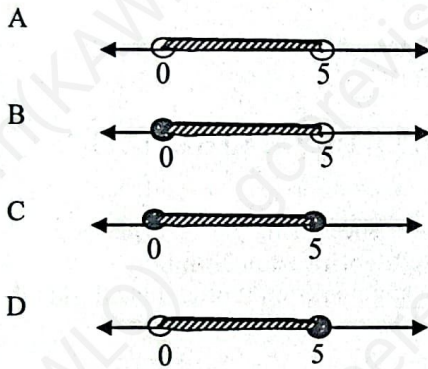
Turn Over

1. The value of the digit 7 in the number 5.074 is
 A 70
 B 7
 C 5.07
 D 0.07

2. The Highest Common Factor (HCF) of x^5 , x^3 , x^9 is
 A x
 B x^3
 C x^5
 D x^9

3. Arranging the decimals 0.33, 0.42, 0.25 in ascending order gives
 A 0.25, 0.33, 0.42
 B 0.42, 0.33, 0.25
 C 0.25, 0.42, 0.33
 D 0.33, 0.42, 0.25

4. The number line that represents the set of elements in the set $T = \{x : 0 \leq x \leq 5\}$ is



5. The number -5 belongs to the set
 A Natural numbers
 B Rational numbers
 C Irrational numbers
 D Integers

6. The fraction "two and one fifth" in figures gives
 A $2\frac{1}{5}$
 B $\frac{2}{5}$
 C $1\frac{2}{5}$
 D $2\frac{2}{5}$

7. The number 234.5×10^3 written in standard form is
 A 2.345×10^4
 B 2.345×10^5
 C 2.345×10^2
 D 2.345×10^1

8. The number 17.561 correct to the nearest whole number is
 A 18
 B 17.6
 C 17
 D 17.60

9. In a class of 105 students, there are 60 girls. The ratio of boys to girls is
 A 4 : 3
 B 7 : 4
 C 3 : 4
 D 4 : 7

10. The rate at which 2,000,000 FCFA is invested for 2 years to yield an interest of 200,000 FCFA is
 A 2 %
 B 4 %
 C 10 %
 D 5 %

11. An empty set is represented as
 A $\{\emptyset\}$
 B $\{\}$
 C $\{0\}$
 D 0

12. Given the set $M = \{\text{prime factors of } 25\}$, M is
 A $\{1, 5, 25\}$
 B $\{5, 25\}$
 C $\{5\}$
 D $\{1, 5, 10, 25\}$

13. In set notation, the number of element in P and not in Q is
 A $n(P \cap Q)$
 B $n(Q' \cup P)$
 C $n(P' \cap Q)$
 D $n(P \cap Q')$

14. Given that p : John is a Cameroonian
 q : John is bilingual,
 the statement "If John is bilingual then he is a Cameroonian" can be represented as
- A $p \rightarrow q$
 B $q \rightarrow p$
 C $p \rightarrow \sim q$
 D $q \rightarrow \sim p$

15. A mapping for which x maps to $2x+1$ is called
- A one - one
 B many - many
 C many - one
 D one - many

16. Given that $f(x) = 3 - 2x$, then $f(-1)$ gives
- A 5
 B 1
 C -1
 D 6

17. Given the function $f: x \mapsto 3x+1$ and
 $g: x \mapsto 2x$, $fg(x)$ is
- A $6x+1$
 B $6x^2+1$
 C $6x+2$
 D $6x$

18. The point at which two lines meet is called an
- A angle
 B intercept
 C edge
 D origin

19. Given that the interior angle of a polygon is 76° , its exterior angle is
- A 104°
 B 14°
 C 76°
 D 38°

20. A regular solid with 11 nets is a
- A square
 B cylinder
 C cuboid
 D cube

21. In a construction, PQ is a perpendicular bisector of RS at T. The value of the angle PTS is
- A 180°
 B 60°
 C 90°
 D 45°

22. Given that l_1 and l_2 are parallel lines in figure 1, and l_3 is a transversal with angle $b = 85^\circ$, the value of angle a is

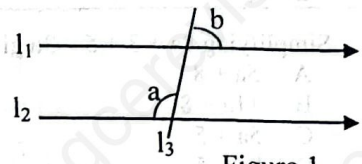


Figure 1

- A 125°
 B 85°
 C 95°
 D 175°

23. The circumference of a circle in terms of π , with radius 3cm is
- A $3\pi\text{cm}$
 B $6\pi\text{cm}$
 C $18\pi\text{cm}$
 D $9\pi\text{cm}$

24. The area of a rectangle with dimensions 9cm by 3cm is
- A 12cm^2
 B 24cm^2
 C 54cm^2
 D 27cm^2

25. The volume of a cone with base radius 3cm and height 7cm, taking π as $\frac{22}{7}$ is
- A 66cm^3
 B 198cm^3
 C 22cm^3
 D 44cm^3

26. The y-intercept of the line $3y+4x=12$ is
- A 4
 B 3
 C 7
 D -4

27. The lines with equations $y = m_1x + c$ and $y = m_2x + k$ are perpendicular if
- A $m_1m_2 = 1$
 B $m_1m_2 = -1$
 C $m_1 = m_2$
 D $2m_1 = m_2$

28. The graph of the function $f(x) = 2x^2 - 3x - 2$ has
- A a maximum turning point
 B no turning point
 C both maximum and minimum turning points
 D a minimum turning point

Turn Over

29. The number of factors in the expression $(x + 1)(x + 2)$ is

A 1
B 4
C 3
D 2

30. Simplifying $8a + 3 + 5 - 3a$ gives

A $5a + 8$
B $11a + 8$
C $5a + 5$
D $8a + 5$

31. Simplifying $2^2 \times 2^{-3}$ gives

A 2^{-1}
B 2^5
C 2^1
D 2^{-6}

32. Given the formula $A = \pi r^2$, expressing r in terms of A and π gives

A $\frac{A}{\pi}$
B $\sqrt{\frac{A}{\pi}}$
C $\frac{\sqrt{A}}{\pi}$
D $\frac{A}{\sqrt{\pi^2}}$

33. The next term in the sequence 1, 1, 2, 3, 5, .. is

A 7
B 9
C 10
D 8

34. Given that y varies directly as x , the equation connecting y and x is

A $y\alpha \frac{1}{x}$
B $y\alpha x$
C $y = kx$
D $xy = k$

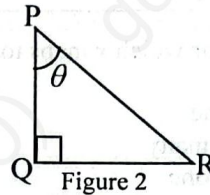
35. The solution set of the set $3x - 4 \leq 8$ is

A $\{x: x \geq 4\}$
B $\{x: x \leq 4\}$
C $\left\{x: x \leq \frac{4}{3}\right\}$
D $\left\{x: x \geq \frac{4}{3}\right\}$

36. In a network with 4 vertices and 5 edges. The number of regions is

A 6
B 2
C 5
D 3

37. Given the right-angled triangle PQR in figure 2, the adjacent side to the angle θ is



A PR
B PQ
C QR
D PQR

38. The value of $\frac{\sin 30^\circ}{\cos 30^\circ}$ is

A $\sqrt{3}$
B $\frac{\sqrt{3}}{2}$
C $\frac{1}{\sqrt{3}}$
D $\frac{2}{\sqrt{3}}$

39. Given that the angle of elevation of a man lying on the ground and sees a bird on top of a tree at P is 40° , the angle of depression of the bird is

A 40°
B 50°
C 90°
D 10°

40. Given the vectors $\mathbf{a} = \begin{pmatrix} 7 \\ 3 \end{pmatrix}$ and $\mathbf{b} = \begin{pmatrix} 2 \\ -9 \end{pmatrix}$, then

$\mathbf{a} + \mathbf{b}$ is

A $\begin{pmatrix} -5 \\ -12 \end{pmatrix}$
B $\begin{pmatrix} -12 \\ -5 \end{pmatrix}$
C $\begin{pmatrix} 6 \\ -9 \end{pmatrix}$
D $\begin{pmatrix} 9 \\ -6 \end{pmatrix}$

41. The vector $\mathbf{OP} = \mathbf{i} - \mathbf{j}$ lies in the

- A 1st quadrant
- B 2nd quadrant
- C 4th quadrant
- D 3rd quadrant

42. The magnitude of the vector $-5\mathbf{i} + 12\mathbf{j}$ is

- A $\sqrt{119}$
- B 13
- C 7
- D 17

43. Given the matrix $A = \begin{pmatrix} 3 \\ 4 \\ 2 \end{pmatrix}$, $A^T =$

- A (3 4 2)
- B $\begin{pmatrix} 3 \\ 4 \\ 2 \end{pmatrix}$
- C $\begin{pmatrix} 3 \\ 2 \\ 4 \end{pmatrix}$
- D (3 2 4)

44. The value of m for which $\begin{pmatrix} m+2 & 3 \\ 4 & -3 \end{pmatrix}$ is a singular matrix is

- A 6
- B 2
- C -6
- D -2

45. The coordinates of the point $A(1, 3)$ reflected on the x -axis are

- A (1, -3)
- B (-1, 3)
- C (-1, -3)
- D (-3, -1)

46. Given the matrices $P = \begin{pmatrix} 2 & 3 \\ 4 & 5 \end{pmatrix}$ and

$$Q = \begin{pmatrix} 1 & 2 \\ 3 & -7 \end{pmatrix}, P + Q \text{ is}$$

- A $\begin{pmatrix} 1 & 1 \\ 1 & -12 \end{pmatrix}$
- B $\begin{pmatrix} 3 & 5 \\ 7 & -2 \end{pmatrix}$
- C $\begin{pmatrix} -1 & -1 \\ -1 & -12 \end{pmatrix}$
- D $\begin{pmatrix} 3 & 5 \\ 7 & 2 \end{pmatrix}$

47. The mode, median and mean are collectively called the measures of

- A deviation
- B frequency
- C central tendency
- D dispersion

48. The median of the marks 3, 7, 9, 11 and 13 is

- A 11
- B 13
- C 8.6
- D 9

49. The range of the scores 3, 2, 0, 5, 6, 4 is

- A 4
- B 3.5
- C 2
- D 6

50. The probability that John does his Mathematics assignment is 0.6. Then the probability that he does not do it is

- A 0.6
- B 0.5
- C 0.4
- D 0.2

STOP

GO BACK AND CHECK YOUR WORK