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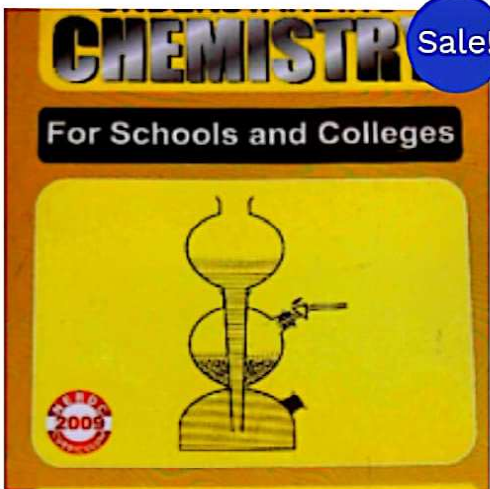


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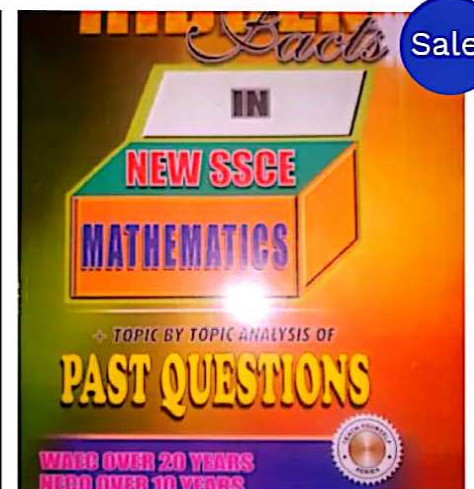
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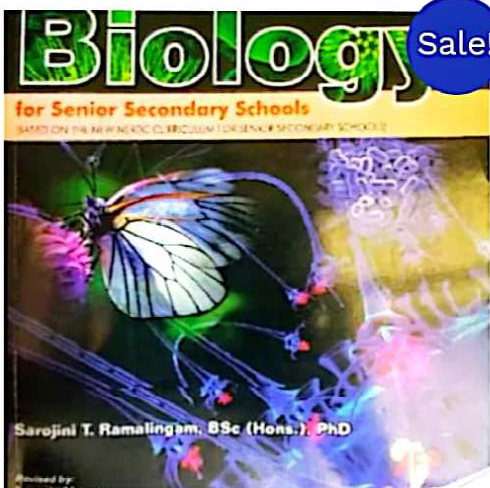
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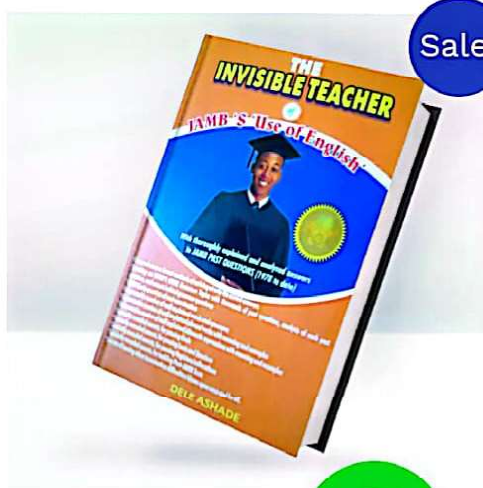
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NATIONAL EXAMINATIONS COUNCIL (NECO), MINNA, NIGERIA

2021 National Common Entrance Examination (NCEE)

PAPER I. ACHIEVEMENT TEST TIME ALLOWED: 2 hours 10 mins.

Part A: MATHEMATICS AND BASIC SCIENCE AND TECHNOLOGY
Part B: ENGLISH STUDIES AND NATIONAL VALUES EDUCATION

INSTRUCTIONS TO CANDIDATES:

Do not open this booklet until you are told to do so. While you are waiting, read the following carefully.

1. There are sixty questions in Mathematics and Basic Science and Technology paper for which you are allowed 65 minutes. Also, there are sixty questions in English Studies and National Values Education paper for which you are allowed 65 minutes.
2. Use HB pencil throughout.
3. All diagrams in Mathematics are not drawn to scale.
4. Check that the details printed on your answer sheet are correct.
 - (a) In the space marked "Name", check that your name is printed correctly.
 - (b) In the box marked "Examination Number", check that the digits of your examination number are correctly printed in the spaces on the left-hand side. There are numbered spaces in line with each of these digits. For each digit, the space with same number as the digit has been shaded.
 - (c) In the box marked "Sex", check that the space marked "M" has been shaded if you are a male, or "F" if you are a female.

An example is given below for a male candidate whose examination number is 413267AE.

5. When you have chosen the answer to a question, shade the space which has the same letter as the letter of the answer you have chosen. Shade it like this [A] [B] [C] [D] [E]

EXAMINATION NUMBER							
4	1	3	2	5	7	A	E
[0]	[0]	[0]	[0]	[0]	[0]	[A]	[A]
[1]	[1]	[1]	[1]	[1]	[1]	[B]	[B]
[2]	[2]	[2]	[2]	[2]	[2]	[C]	[C]
[3]	[3]	[3]	[3]	[3]	[3]	[D]	[D]
[4]	[4]	[4]	[4]	[4]	[4]	[E]	[E]
[5]	[5]	[5]	[5]	[5]	[5]	[F]	[F]
[6]	[6]	[6]	[6]	[6]	[6]	[G]	[G]
[7]	[7]	[7]	[7]	[7]	[7]	[H]	[H]
[8]	[8]	[8]	[8]	[8]	[8]	[I]	[I]
[9]	[9]	[9]	[9]	[9]	[9]	[J]	[J]

6. Leave extra spaces blank if the answer spaces provided are more than you need.

7. Do not make any marking(s) across the heavy black marks at the right edge of your answer sheet.

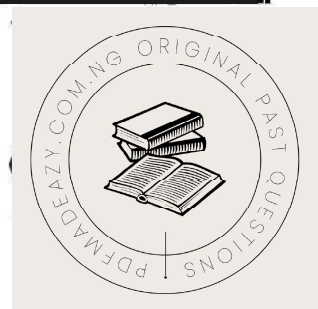
8. Think carefully before you shade the answer spaces. Erase completely any answer(s) you wish to change.

9. Do not shade more than one answer space for a question (if you do, you will score zero for that question).

10. When you are told to begin, answer the questions as quickly and carefully as you can. If you cannot answer a question, do not spend too much time on it, but try the next one.

11. Do not ask any question(s) once the examination has started. The Supervisor is not allowed to explain any question(s) to you during the examination.

SEX	
Indicate your sex by shading M (Male) <input checked="" type="checkbox"/> F (Female) <input type="checkbox"/>	



PART A
MATHEMATICS

1. Change 478 to Roman numerals.
- A. DCLXXXVIII
 - B. CDLXXVIII
 - C. DCLXXVIII
 - D. CDLXXXVIII
 - E. DCLXXVII
2. Write in words 4,690,852.
- A. Four million, sixty nine thousand, eight hundred and fifty two
 - B. Four million, six hundred and nine thousand, eight hundred and fifty two
 - C. Four million, six hundred and ninety thousand, eight hundred and two
 - D. Four million, six hundred and ninety thousand, eight hundred and fifty two
 - E. Four million, nine hundred and sixty thousand, eight hundred and fifty two
3. What is the place value of 6 in 123.64?
- A. Hundreds
 - B. Hundredth
 - C. Tens
 - D. Tenth
 - E. Thousands
4. Which of the following numbers, 0, 12, 5, -12, -5, is the lowest?
- A. 12
 - B. 5
 - C. 0
 - D. -5
 - E. -12
5. If a sachet of semovita costs ₦700.00, what will be the cost of 20 sachets?
- A. ₦10,000.00
 - B. ₦12,000.00
 - C. ₦14,000.00
 - D. ₦20,500.00
 - E. ₦21,000.00
6. Convert 5 days into hours.
- A. 10
 - B. 12
 - C. 50
 - D. 100
 - E. 120
7. Which of the following numbers is a perfect square?
- A. 54
 - B. 70
 - C. 86
 - D. 90
 - E. 121
8. Simplify $\sqrt{1\frac{11}{25}}$.
- A. $7\frac{1}{5}$
 - B. $1\frac{1}{5}$
 - C. $\frac{5}{6}$
 - D. $\frac{2}{5}$
 - E. $\frac{1}{3}$

9. Find the value of $4 + \sqrt{16} - 3$.

- A. 2
- B. 3
- C. 4
- D. 5
- E. 6

10. Find the value of $\sqrt{12\frac{1}{4}} + \sqrt{1\frac{9}{16}}$.

- A. $1\frac{1}{2}$
- B. $1\frac{3}{4}$
- C. $2\frac{1}{4}$
- D. $3\frac{3}{4}$
- E. $4\frac{3}{4}$

11. If a baby is born on the 1st of July 2014, how old will he be on the 1st of December 2014?

- A. 4 months
- B. 5 months
- C. 6 months
- D. 7 months
- E. 8 months

12. If the price of a pair of school sandals is reduced from ₦2,000.00 to ₦1,500.00, how much is reduced?

- A. ₦1,500.00
- B. ₦1,000.00
- C. ₦750.00
- D. ₦500.00
- E. ₦250.00

13. The addition of $8\frac{1}{4}$ to a certain number gives $10\frac{1}{2}$. Find the number.

- A. $5\frac{1}{2}$
- B. $2\frac{3}{4}$
- C. $2\frac{1}{2}$
- D. $2\frac{1}{4}$
- E. $1\frac{1}{3}$

14. A boy needs $2\frac{1}{2}$ metres of cloth to make his uniform. How many metres of cloth will be needed for 5 boys, using same measurement?

- A. $12\frac{1}{2}$
- B. $7\frac{1}{2}$
- C. $5\frac{1}{2}$
- D. $3\frac{1}{2}$
- E. $2\frac{1}{2}$

15. A trader bought a basket of tomatoes for ₦10,000.00 and paid 5% as tax. How much did he pay as tax?

- A. ₦500.00
- B. ₦1,000.00
- C. ₦1,500.00
- D. ₦5,000.00
- E. ₦10,500.00



16. If 100 envelopes cost ₦1,000.00, what will be the cost of 650 envelopes?
- A. ₦1,000.00
 B. ₦1,500.00
 C. ₦2,000.00
 D. ₦3,250.00
 E. ₦6,500.00
17. Arrange: $\frac{3}{5}, \frac{2}{3}, \frac{1}{3}, \frac{5}{6}, \frac{1}{15}$ in descending order of magnitude.
- A. $\frac{1}{15}, \frac{5}{6}, \frac{3}{5}, \frac{2}{3}, \frac{1}{3}$
 B. $\frac{2}{3}, \frac{3}{5}, \frac{5}{6}, \frac{1}{15}, \frac{1}{3}$
 C. $\frac{5}{6}, \frac{2}{3}, \frac{3}{5}, \frac{1}{3}, \frac{1}{15}$
 D. $\frac{1}{3}, \frac{2}{3}, \frac{3}{5}, \frac{1}{15}, \frac{5}{6}$
 E. $\frac{3}{5}, \frac{2}{3}, \frac{5}{6}, \frac{1}{15}, \frac{1}{3}$
18. Find the square of the Lowest Common Multiple (L.C.M) of 12 and 18.
- A. 46,656
 B. 1,296
 C. 36
 D. 18
 E. 6
19. If 20% discount is given on an article which costs ₦20,000.00, how much will a buyer pay for the article?
- A. ₦15,600.00
 B. ₦16,000.00
 C. ₦16,400.00
 D. ₦16,600.00
 E. ₦18,000.00
20. Find the value of x in equation $\frac{x}{5} = \frac{24}{40}$.
- A. 12
 B. 9
 C. 6
 D. 3
 E. 1
21. Which of the following is divisible by 8 without a remainder?
- A. 38
 B. 49
 C. 58
 D. 64
 E. 84
22. Find the value of x , if $6x + 7 = 25$.
- A. 3
 B. 6
 C. 12
 D. 18
 E. 32
23. Ochuko is 32 years old and her sister is 14 years old. What was the sum of their ages 5 years ago?
- A. 66 years
 B. 46 years
 C. 36 years
 D. 26 years
 E. 18 years
24. Which of the following numbers, 29, 33, 49, 57, 69, is a prime number?
- A. 29
 B. 33
 C. 49
 D. 57
 E. 69

25. Find the value of x in the equation

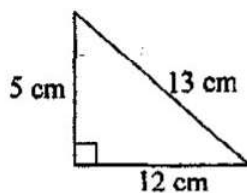
$$x + 2\frac{1}{3} = 2.$$

- A. $\frac{5}{3}$
- B. $\frac{2}{3}$
- C. $\frac{1}{3}$
- D. $-\frac{1}{2}$
- E. $-\frac{1}{3}$

26. Simplify $2a + b$, when $a = 3$ and $b = -2$.

- A. 2
- B. 3
- C. 4
- D. 6
- E. 8

27. Calculate the area of the triangle below.



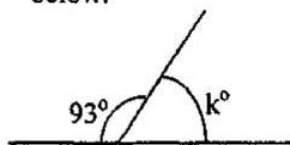
- A. 7.5 cm^2
 - B. 30.0 cm^2
 - C. 60.0 cm^2
 - D. 78.0 cm^2
 - E. 156.0 cm^2
28. If $x : 2 = 12 : 4$, find the value of x .

- A. 2
- B. 3
- C. 4
- D. 6
- E. 24

29. If $3y = 150$, what is the value of $y - 2$?

- A. 48
- B. 49
- C. 50
- D. 51
- E. 52

30. Find the value of k in the figure below.



- A. 58
- B. 68
- C. 78
- D. 87
- E. 98

31. How many lines of symmetry does a square have?

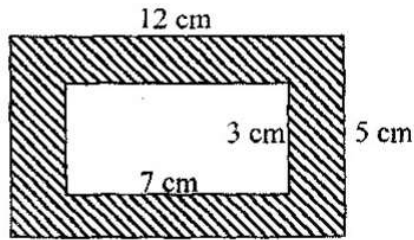
- A. 0
- B. 1
- C. 2
- D. 3
- E. 4

32. Calculate the volume of a cylinder whose radius is 3 cm and perpendicular height 7 cm.

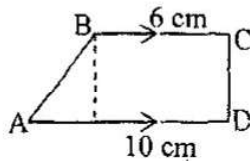
(Take $\pi = \frac{22}{7}$)

- A. 132 cm^3
- B. 162 cm^3
- C. 198 cm^3
- D. 203 cm^3
- E. 300 cm^3

33. Find the area of the shaded portion in the diagram below.

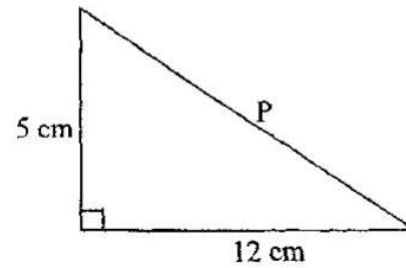


- A. 14 cm^2
 B. 21 cm^2
 C. 39 cm^2
 D. 40 cm^2
 E. 60 cm^2
34. The area of a rectangle is 24 cm^2 . If the breadth is 3 cm, find the length.
- A. 9 cm
 B. 8 cm
 C. 6 cm
 D. 3 cm
 E. 2 cm
35. Find the height of the trapezium below if its area is 28 cm^2 .

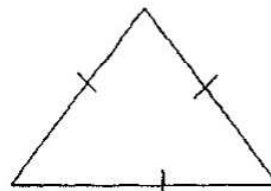


- A. 2.5 cm
 B. 3.5 cm
 C. 4.5 cm
 D. 5.5 cm
 E. 6.5 cm

36. Calculate the value of P in the diagram below.



- A. 60
 B. 17
 C. 13
 D. 11
 E. 7
37. What is the sum of the angles in a triangle?
- A. 180°
 B. 120°
 C. 90°
 D. 60°
 E. 45°
38. What is the name of the shape below?



- A. Complete triangle
 B. Equilateral triangle
 C. Isosceles triangle
 D. Right-angled triangle
 E. Scalene triangle

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