MATHEMATICS
Grade 5

National Level Examination

NLE 2025

Subject Code: | 2 | 0 | 1 |

Total Questions: 30   **Total Marks:** 30   **Time:** 1 hour

DO NOT OPEN THIS BOOKLET UNTIL INSTRUCTED TO DO SO

➤ All questions are compulsory.

➤ Read the instructions on the **ANSWER SHEET** and fill in your **NAME**, **CLASS** and **OTHER INFORMATION**.

➤ To mark your choice of answer by darkening the circles in the **ANSWER SHEET**, use an **HB PENCIL** only.

➤ You **MUST** record your answers on the **ANSWER SHEET** only.

➤ There are **30 MULTIPLE CHOICE QUESTIONS**. Use the information provided to choose the **BEST** possible answer among the four options. On your **ANSWER SHEET** fill in the circle that matches your answer.

➤ $\frac{1}{2}$ **MARK** will be deducted for every **WRONG ANSWER**.

➤ Return the **ANSWER SHEET** to the invigilator at the end of the examination.

➤ You are **NOT** allowed to use a calculator. You may use a ruler and spare paper for rough work.

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This question paper contains a total of 30 questions divided into three sections—A, B and C. Read the instructions carefully before attempting these questions.

Section A (Logical Reasoning)

1. If $1A \times 3 = B1$, where A and B are distinct digits; then the value of $(A + B)$ is _____.
   (A) 9   (B) 10
   (C) 11   (D) 12

2. If the fifth person from the front in a queue is the tenth person from behind, how many persons are there in the queue?
   (A) 30   (B) 13
   (C) 14   (D) 15

3. Find the value of X in the pattern as shown alongside.
   (A) 70
   (B) 76
   (C) 84
   (D) 90

7	72
78	11
13	X
90	17
19	96

4. In the given Venn diagram, the big circle represents students who play hockey, the small circle represents students who play badminton, and the triangle represents students who play carrom.
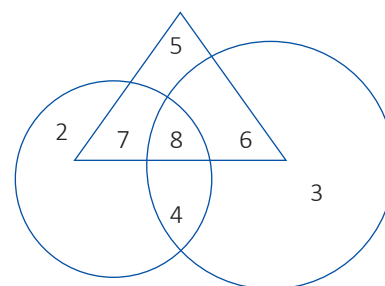
   Which number represents students who play hockey and carrom with badminton?
   (A) 7   (B) 8
   (C) 5   (D) 6

5. **Statement 1:** All horses are donkeys.

   Statement 2: All donkeys are monkeys.
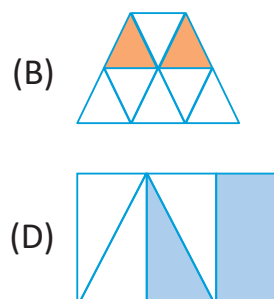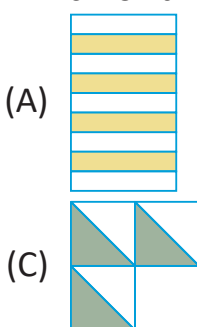
   Conclusion I: All horses are monkeys.

   Conclusion II: All monkeys are horses.
   (A) Only conclusion I is correct.   (B) Only conclusion II is correct.
   (C) Both conclusions I & II are correct. (D) Neither conclusion I nor II is correct.

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Section B (Subject Specific)

6. Suhana is XIX years old. Her sister is XXV years old. What is their total age in years?
   - (A) XLIV
   - (B) XXIV
   - (C) XLV
   - (D) XLVI

7. Which of the following statements is incorrect?
   - (A) The place value of the digit '3' in the number 543765 is 3000.
   - (B) The place value of the digit '6' in the number 6734581 is the predecessor of 5999999.
   - (C) In the number 1876523, the place value of the digit '1' is 1000000.
   - (D) The place value of the digit '5' in the number 7658321 is the successor of 49999.

8. The total number of prime factors in the expression $(4)^{13} \times (7)^3 \times (11)^3$ is _____.
   - (A) 30
   - (B) 7
   - (C) 32
   - (D) 100

9. If the length and breadth of a rectangle are doubled then its perimeter is _____.
   - (A) tripled
   - (B) halved
   - (C) doubled
   - (D) None of these

10. What fraction of the letters in the word 'MULTIPLY' are also in the word 'PRODUCT'?
    - (A) $\dfrac{3}{8}$
    - (B) $\dfrac{4}{7}$
    - (C) $\dfrac{4}{15}$
    - (D) $\dfrac{3}{7}$

11. In the division shown alongside, find the value of Q + R − S + P; where P, Q, R and S are any digits.
    - (A) 7
    - (B) 2
    - (C) 6
    - (D) 4

    $$\begin{array}{r} 9S \\ 108\overline{)10695(} \\ -9Q2 \\ \hline 97R \\ -972 \\ \hline P \end{array}$$

12. Which of the following shows 0.25 of the figure shaded?
    - (A)
    - (B)
    - (C)
    - (D)

13. Monu is thinking of a four-digit number with all different digits.

   - The unit place digit is the greatest one-digit number.

   - When the tens place digit is divided by the thousands place digit, the quotient is 2.

   - The thousand place digit is double of 2.

   - The difference between the tens and hundreds place digit is 1.

   Which of the following could be the number Monu is thinking of?

   (A) 4798   (B) 4789

   (C) 4698   (D) 2549

14. Which of the given options have a vertical line of symmetry?

   A M C B
   1   2   3   4

   (A) 1 and 2   (B) 2 and 3

   (C) 3 and 4   (D) 1, 2 and 4

15. Gunjan bought 3 kg 350 g potatoes, 2 kg 725 g tomatoes and 2 kg 475 g onions. Find the total weight of the vegetables bought by her.

   (A) 11.550 kg   (B) 8.550 kg

   (C) 11.250 kg   (D) 11.850 kg

16. Consider the following statements and choose the correct option by indicating true 'T' or false 'F'.

   I. When we multiply a decimal number by 100, we move the decimal point 2 places right.

   II. When we divide a decimal number by 100, we move the decimal point 2 places right.

   III. We multiply by 100 to convert a fraction into percentage.

   IV. We multiply by 100 to convert percentage to fraction.

	I	II	III	IV
(A)	T	T	F	F
(B)	T	F	F	T
(C)	T	F	T	F
(D)	F	F	T	T

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17. Which of the following options shows 0.34 km, 56000 cm, 310000 mm, and 1600 m in descending order?

(A) 1600 m > 0.34 km > 310000 mm > 56000 cm

(B) 56000 cm > 0.34 km > 1600 m > 310000 mm

(C) 1600 m > 56000 cm > 0.34 km > 310000 mm

(D) 0.34 km > 310000 mm > 1600 m > 56000 cm

18. A chef is cutting a pizza into eight equal slices. Each slice forms an angle at the centre of the pizza. What is the measure of each angle?

(A) 45°   (B) 25°

(C) 90°   (D) 40°

19. Geetu reached her friend's house at 6:55 pm. She stayed there for $1\frac{1}{2}$ hours. At what time did she come out from there?

(A) 7:25 pm   (B) 8:25 pm

(C) 8:30 pm   (D) 9:00 pm

20. How many degrees does the minute hand of a clock turn in half an hour?

(A) 60°   (B) 30°

(C) 90°   (D) 180°

21. A solid object, when seen from one side, looks like ⬜. The same solid, when viewed from top, looks like △. Which of these shapes could it be?

(A)   (B)

(C)   (D)

22. At which point will the lines shown in the given image meet when extended?
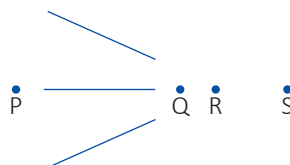
(A) P   (B) Q

(C) R   (D) S

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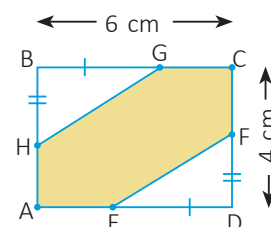23. ABCD is a rectangle. ED is $\frac{2}{3}$ the length of BC and AH is half of AB. Find the area of the shaded part.
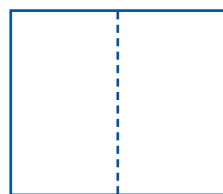

(A) 16 cm²

(B) 24 cm²

(C) 20 cm²

(D) 18 cm²

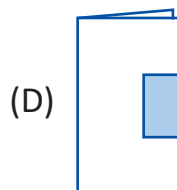24. A sheet of paper when folded once looks like
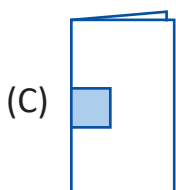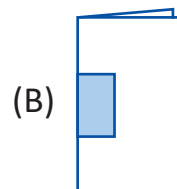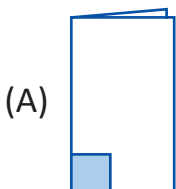

| Sheet of Paper | Sheet after folding |

How should this folded sheet be cut so that the piece CUT OUT is a square?

(A)

(B)

(C)

(D)

25. If = 70 g, = 50 g and the total weight of 10 + 10 + 10 = 1400 g.

Then, what is the weight of ?

(A) 70 g

(B) 200 g

(C) 90 g

(D) 20 g

Section C (Competency Enhancement)

26. In a tennis match, a player takes 45 seconds on an average to serve during each point. If the player serves for a total of 160 points in a match, and there are 2 breaks of 10 minutes each during the match, what is the total time taken to complete the match, including the breaks?
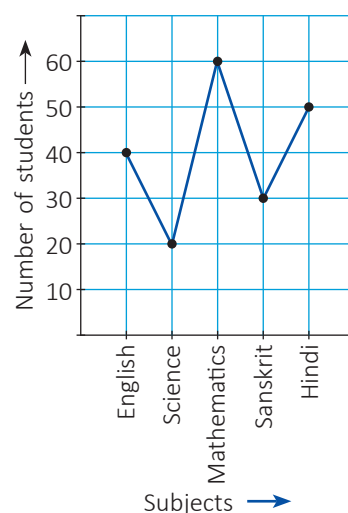
(A) 2 hours 10 minutes

(B) 2 hours 20 minutes

(C) 2 hours 30 minutes

(D) 2 hours 40 minutes

MATHEMATICS

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\ 24-Dec-2024   Bharat Arora   **Proof-4**   Reader's Sign _____   Date _____

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27. The graph shows the number of students who appeared in five different subject exams according to their choice.
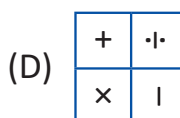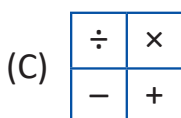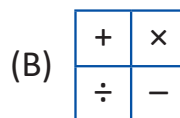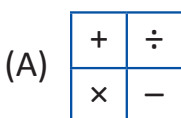

How many less students have appeared on the Mathematics exam than on the Sanskrit and English exams together?

(A) 10   (B) 20

(C) 30   (D) 40

28. A square sheet of paper with a design on it is shown in the given image.

+	−
×	÷
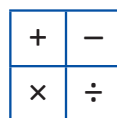
Now look carefully at the figures shown below. Which of these is an orientation of the square sheet shown in the given image?

(A)
+	÷
×	−

(B)
+	×
÷	−

(C)
÷	×
−	+

(D)
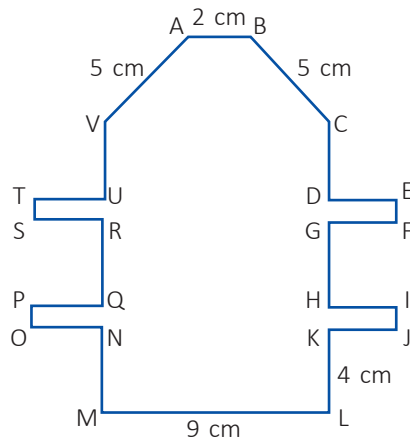| +	·|·
×	I

29. What is the successor of the sum of the smallest and the largest 5-digit numbers formed by using the digits 5, 9, 0, and 8?

(A) 148389   (B) 148388

(C) 149930   (D) 149940

30. In the given figure, VU = CD = GH = RQ = NM = KL = 4 cm, OP = ST = EF = IJ = 1 cm, and ON = PQ = SR = TU = DE = GF = HI = KJ = 2 cm. Find the perimeter of the given figure.

(A) 65 cm

(B) 70 cm

(C) 80 cm

(D) 85 cm