Reasoning & Aptitude
Grade 7

National Level Examination

NLE 2025

Subject Code: 7 | 0 | 1

Total Questions: 40   **Total Marks:** 40   **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 a **BLUE/BLACK BALL PEN** only.

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

➤ There are **40 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 40 questions divided into three sections—A, B and C.
Read the instructions carefully before attempting these questions.

Section A (Logical Reasoning)

1. If P, Q, and R are non-zero single digits and the square of digit P is a 2-digit number, i.e., QR, then find the value of Q using the following relation.

    $P^2 = (Q + R)^2 = QR$

   (A) 6   (B) 4

    (C) 3   (D) 8

2. Select the correct mirror image of fig. (X).

    96ZNht
    (X)

    (A) **thNZ69**   (B) **69ƧИИϒf**

    (C) **ϯԀИƧϱe**   (D) **ϯЧNZ96**

3. Find the value of N.
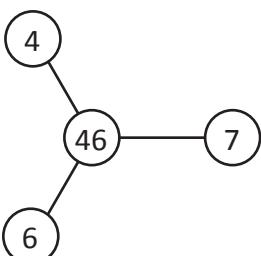
   (A) 68   (B) 80

    (C) 86   (D) 92
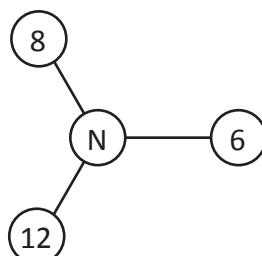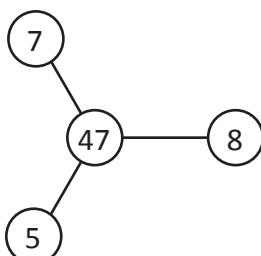
4. Nishtha notices the reflection of a wall clock in a mirror. The time shown by this clock when seen in the mirror is 9 hours 30 minutes. What is the actual time shown on the clock?

    (A) 5 hours 30 minutes   (B) 2 hours 30 minutes

    (C) 4 hours 20 minutes   (D) 3 hours 20 minutes

5. Identify the pattern and find the value of X.

	5				4				2				7	
1	27	7		5	31	3		6	50	7		3	X	4
	4				4				4				4	

   (A) 45   (B) 40

    (C) 35   (D) 42

6. Pratishtha starts at point T and walks straight to point U which is 40 m away. She turns left at 90° and walks to W, which is 40 m away, turns 90° right and goes 30 m to P, turns 90° right and walks 10 m to Q, turns left at 90° and goes to V which is 10 m away, and once again turns 90° right and goes to R, 30 m away. What is the distance between T and R?

(A) 40 m   (B) 50 m

(C) 70 m   (D) 80 m

7. Select the correct water image of fig.(X).
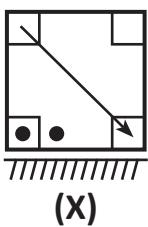
(X)
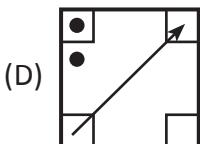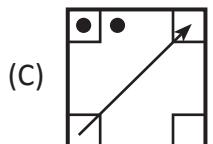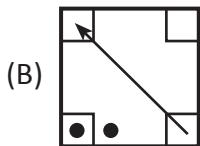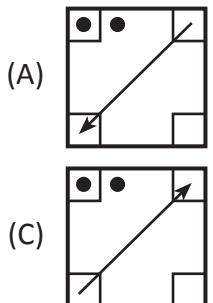
8. Find the next number in the series:

2, 5, 14, 41, ___

(A) 100   (B) 110

(C) 122   (D) 132

9. Select the option in which fig. (X) is embedded/hidden.

(X)
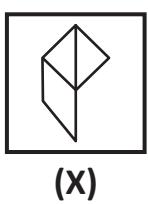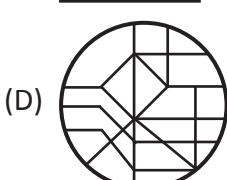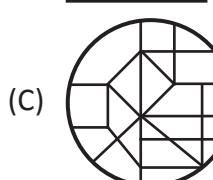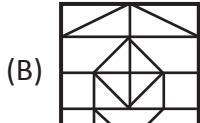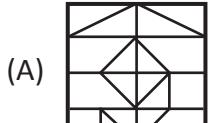
10. Which of the following Venn diagrams best represents the relationship amongst 'Planets, Jupiter, Venus'?

(A)

(B)

(C)

(D)
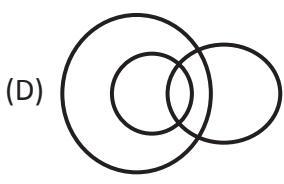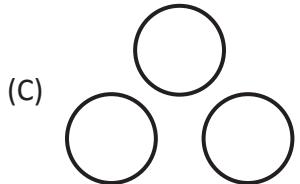
11. Find the missing number.

14 ⟶ 916 ⟶ ? ⟶ 4964

(A) 1024

(B) 2589

(C) 2036

(D) 2536

12. Identify the relationship between the first and second figures. Apply the same relationship to the third figure to find the correct option for the question mark (?).

(A)

(B)

(C)

(D)
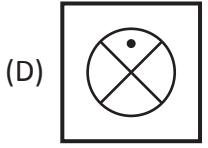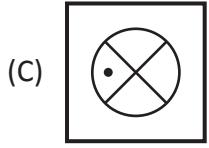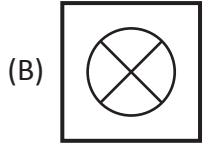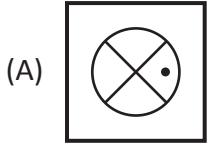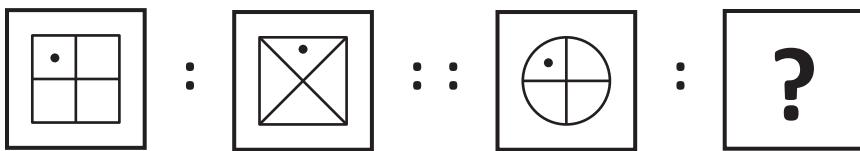
13. Find the next number of the pattern:

2, 12, 36, 80, 150, _____

(A) 210

(B) 258

(C) 194

(D) 252

14. What will be the next one in the series: FK27, LQ216, RW729, _____?

(A) CX512

(B) XC1728

(C) YB343

(D) XC3375

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15. Study the following arrangement carefully and answer the question given below:

   U C A B B R C D E Z F E I B U C A F E C B B A C A O B N U V W M K C V D

   How many C's are there in the given series which are immediately followed by a vowel?
   (A) One   (B) Two
   (C) Three   (D) More than three

16. If U > T, R > Q, S > T, and T > R, which one of the following is true?
   I. U > S   II. S > Q   III. U > R
   (A) Only I   (B) Only II
   (C) I and II   (D) II and III

17. Find the missing number.

   342 / 6 / 48   215 / 5 / 35   ? / 8 / 80
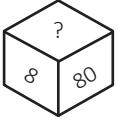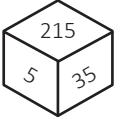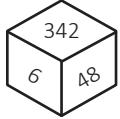
   (A) 255   (B) 511
   (C) 728   (D) 1023

18. Select the option that fits into fig. (X) exactly to form a complete square.

   (A)   (B)   (X)

   (C)   (D)

19. Find the missing number.

   1 2   7 3   3 1   10 3
     2781   642749   51219   ?
      3   4   8   7
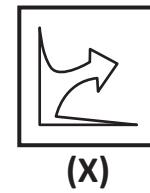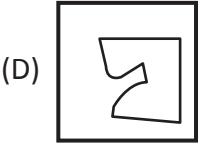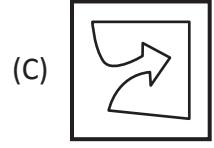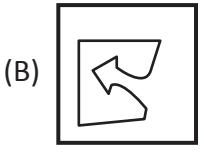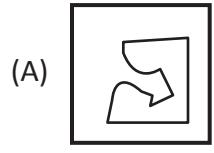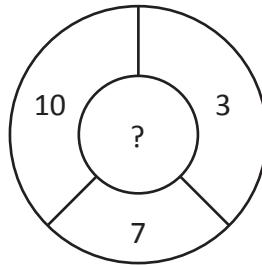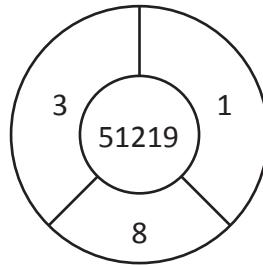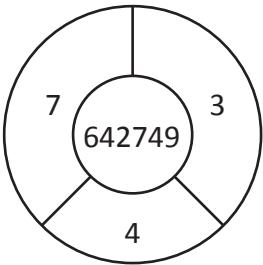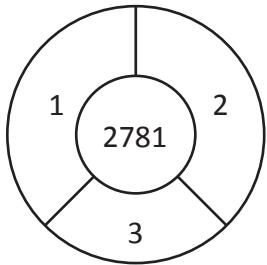
   (A) 499100   (B) 34391000
   (C) 10027343   (D) 34327100

20. Which of the following year will have the same calendar as that of 2028?
   (A) 2032   (B) 2035
   (C) 2056   (D) 2100

21. A set of some figures is given. Group these figures into three classes on the basis of identical properties using each figure only once.
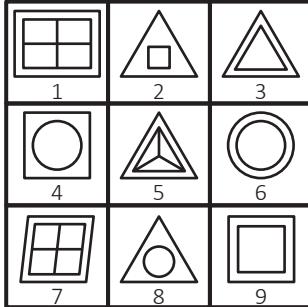
(A) 1, 5, 7; 2, 4, 6; 3, 9, 8

(B) 1, 5, 7; 2, 4, 8; 3, 6, 9

(C) 1, 4, 7; 2, 5, 8; 3, 6, 9

(D) 1, 7, 9; 3, 5, 8; 2, 4, 6

22. Each alphabet represents a distinct digit, and the leftmost digit in each number cannot be zero. Find the value of A + N + E.

```
      T   R   A   P
  +   P   A   N   E
  ─────────────────
  P   R   O   M   T
```

(A) 14

(B) 17

(C) 18

(D) 20

23. Count the number of triangles in the given figure.

(A) 16

(B) 15

(C) 14

(D) 13
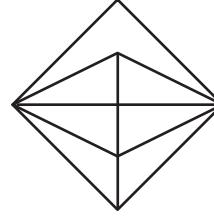
24. Tushar is standing in a queue at a movie ticket counter. There are 27 people in the queue. He is 12th from the rear end. If 5 people in front of him left the queue, what is his new position from the front?

(A) 9th

(B) 12th

(C) 11th

(D) 10th

25. A man is standing facing North. He turns 45° in the anticlockwise direction and after that 180° in the clockwise direction. Which direction is he facing now?

(A) South-West

(B) North-West

(C) North-East

(D) South-East

26. If 'hockey' means 'fencing', 'fencing' means 'football', 'football' means 'tennis', and 'tennis' means 'basketball', then with which game is the FIFA associated?

(A) Hockey

(B) Fencing

(C) Football

(D) Tennis

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Section B (Quantitative Aptitude)

27. In counting from 1995 to 2024 (including both), how many numbers are divisible by 4?

    (A) 6   (B) 7

    (C) 8   (D) 9

28. Find the missing number.

11	21	31	91
231	441	651	?

    (A) 2331   (B) 2221

    (C) 2121   (D) 1911

29. In a grid of 3 × 3, Kavita has to put 0 and 1 in each cell such that each sub-grid of 2 × 2 has exactly 2 equal numbers. The sum of numbers along each diagonal should be 3. What will be the maximum possible sum of all the 9 cells?

    (A) 3   (B) 4

    (C) 5   (D) 6

30. Each alphabet represents a distinct digit, and the leftmost digit in each number cannot be zero. The value of (C + E) is

    (A) 9   (B) 10

    (C) 12   (D) 13

```
      A   C   E
      A   C   E
      A   C   E
  +   A   C   E
  _____
      B   E   C
```

31. Find the missing number.
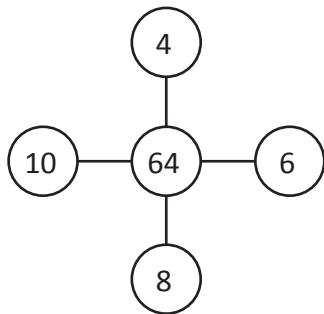
    (A) 2, 3   (B) 3, 4

    (C) 4, 5   (D) 4, 6
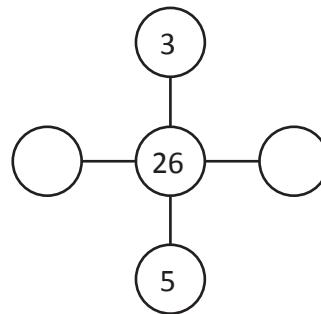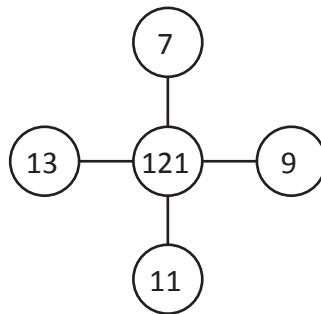
32. 52% of the students in a class are boys. If P is equal to the total number of students in the class and Q = 22, then

    (A) P > Q

    (B) P < Q

    (C) P = Q

    (D) Relationship between P and Q cannot be determined.

33. How many natural numbers less than 211 are having at least one of their digit 5?

    (A) 39   (B) 42

    (C) 44   (D) 46

Section C (Competency Enhancement)

34. Sonu made a cuboid while playing with clay. Then he cut the cuboid diagonally. The obtained shape is
    (A) Cube
    (B) Cuboid
    (C) Rectangular Prism
    (D) Triangular Prism

35. In a pattern, after every white flower, there are two red flowers and two leaves, followed by another white flower. What will be the 75th and 76th items in this pattern?
    (A) Leaf and white flower
    (B) Red flower and leaf
    (C) White and red flowers
    (D) Leaf and leaf

36. Children are standing height-wise in ascending order. Sonu is standing before Tina and there is nobody before Sonu. Monu is in fourth place on counting from both front and back. Rahul is just next to Kavi. Swati is between Monu and Kavi and is in third position from the back. Who is the tallest among all?
    (A) Sonu
    (B) Kavi
    (C) Rahul
    (D) Swati

37. Observe the figure given alongside and answer the following question.

    How many politicians are neither millionaires nor Indians?
    (A) 15
    (B) 20
    (C) 35
    (D) 18
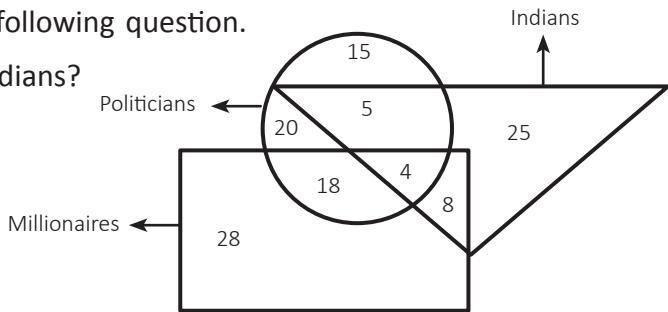
38. Given below are the number codes to alphabets. Place them in such a manner that it forms a meaningful word.

Z	D	T	O	R	P	E	I	A
1	2	3	4	5	6	7	8	9

    (A) 359671482
    (B) 357916482
    (C) 359867124
    (D) 356721498

39. If A, B, C, D, E are coded as 3, 5, 10, 12, 15, where it is not mentioned which letter signifies which number. If C is E times B and D = E + B + 2, then the value of A + B − D is
    (A) A
    (B) B
    (C) C
    (D) E

40. Pointing to a man in a photograph, a woman said, "His brother's father is the only son of my grandfather". How is the woman related to the man in the photograph?
    (A) Aunt
    (B) Daughter
    (C) Grandfather
    (D) Sister