📘 NACT Class 7 – Maths Practice Set (100 MCQs with Answers)

🧠 Section 1: Logical Reasoning (30 Questions)

1. What comes next in the series: 3, 6, 12, 24, ___?
   A. 36   B. 48   C. 50   D. 54
   ✅ Answer: B. 48

2. If ALL=25, BALL=27, then CALL= ?
   A. 29   B. 28   C. 30   D. 31
   ✅ Answer: C. 30

3. Find the odd one out: 121, 144, 169, 225, 256
   A. 121   B. 144   C. 169   D. 225
   ✅ Answer: D. 225

4. Which number should replace the question mark?
   5, 11, 23, 47, ?
   A. 95   B. 94   C. 93   D. 96
   ✅ Answer: A. 95

5. If in a code, STAR = 3826 and RATS = 6283, then TARS = ?
   A. 8326   B. 8263   C. 8623   D. 8362
   ✅ Answer: C. 8623

6. Which is the mirror image of 'K'?
   A. L   B. K   C. J   D. None of these
   ✅ Answer: B. K

7. Which shape is different from others?
   A. Cube   B. Sphere   C. Cone   D. Circle
   ✅ Answer: D. Circle

8. Complete the series: 7, 10, 16, 28, ?
   A. 46   B. 48   C. 54   D. 50
   ✅ Answer: B. 48

9. Which is the next term? AB, CD, EF, GH, ?
   A. IJ   B. JK   C. HI   D. KL
   ✅ Answer: A. IJ

10. How many triangles are in a pentagram?
    A. 10   B. 12   C. 8   D. 5
    ✅ Answer: A. 10

11. Which number has the least value?
    A. 0.4   B. 0.04   C. 0.444   D. 0.04
    ✅ Answer: B. 0.04

12. Which number will complete the series?
    2, 6, 12, 20, 30, ?
    A. 36   B. 40   C. 42   D. 44
    ✅ Answer: C. 42

13. Aman is taller than Ravi but shorter than Suresh. Who is the shortest?
    A. Aman   B. Ravi   C. Suresh   D. Cannot be determined
    ✅ Answer: B. Ravi

14. Which is the odd one out?
    Circle, Triangle, Square, Rectangle, Cube
    A. Circle   B. Square   C. Cube   D. Triangle
    ✅ Answer: C. Cube

15. If MONDAY is coded as 123456, what is the code for DYNAMO?
    A. 643215   B. 564321   C. 654321   D. 345621
    ✅ Answer: A. 643215

16. What comes next? 2, 4, 8, 16, ___
    A. 20   B. 24   C. 32   D. 64
    ✅ Answer: C. 32

17. Which is the odd one out: 12, 18, 24, 36, 49
    A. 12   B. 18   C. 24   D. 49
    ✅ Answer: D. 49

18. If CAT = 3120, DOG = 4157, then BAT = ?
    A. 2120   B. 2130   C. 3121   D. 3130
    ✅ Answer: B. 2130

19. Which number replaces the question mark:
    27, 36, __, 54, 63
    A. 45   B. 40   C. 48   D. 50
    ✅ Answer: A. 45

20. If TABLE is coded as UBCMF, then CHAIR is coded as:
    A. DIBJS   B. DBHJS   C. DIBKR   D. DIBIR
    ✅ Answer: A. DIBJS

21. Find the missing number: 3, 9, 27, 81, ?
    A. 162   B. 243   C. 324   D. 216
    ✅ Answer: B. 243

22. Which is the odd one out?
    Square   Triangle   Rectangle   Circle
    ✅ Answer: B. Triangle

23. Which of the following is the mirror image of the word BOWL?
    A. ꟽWOB   B. LOWB   C. WOBL   D. ꟼLOW
    ✅ Answer: A. ꟽWOB

24. Which direction will you face if you start facing North, turn 90° right, then 180° left?
    A. North   B. East   C. West   D. South
    ✅ Answer: C. West

25. Choose the odd one out: Mango, Apple, Banana, Potato
    ✅ Answer: Potato

26. What comes next in the series: 2, 4, 6, 10, 16, ?
    A. 20   B. 22   C. 24   D. 26
    ✅ Answer: B. 22

27. Find the odd one out: 27, 64, 125, 150, 216
    ✅ Answer: C. 150

28. If MONDAY = 1st day, what day will be the 50th day?
    A. Monday   B. Wednesday   C. Thursday   D. Friday
    ✅ Answer: B. Wednesday

29. Which is different: Circle, Sphere, Square, Rectangle
    ✅ Answer: B. Sphere

30. If RED = 27 and GREEN = 52, then BLUE = ?
    A. 40   B. 36   C. 42   D. 38
    ✅ Answer: B. 36

🔢 Section 2: Mathematical Reasoning (30 Questions)

31. Find the LCM of 12, 18, and 24.
    A. 36   B. 72   C. 48   D. 144
    ✅ Answer: B. 72

32. The cube of 7 is:
    A. 49   B. 343   C. 21   D. 147
    ✅ Answer: B. 343

33. $4x - 5 = 15$. Find x.
    A. 5   B. 6   C. 7   D. 8
    ✅ Answer: A. 5

34. What is the value of (2/3) ÷ (4/9)?
    A. 3/2   B. 2/3   C. 9/8   D. 3/4
    ✅ Answer: A. 3/2

35. A triangle has angles 40° and 70°.
    What is the third angle?
    A. 60°   B. 70°   C. 80°   D. 90°
    ✅ Answer: C. 70°

36. What is 25% of ₹800?
    A. ₹100   B. ₹200   C. ₹150   D. ₹250
    ✅ Answer: B. ₹200

37. If 5x = 45, then x = ?
    A. 5   B. 6   C. 7   D. 9
    ✅ Answer: D. 9

38. Perimeter of a square of side 8 cm is:
    A. 32 cm   B. 64 cm   C. 16 cm   D. 24 cm
    ✅ Answer: A. 32 cm

39. What is the value of $3^2 + 4^2$?
    A. 9   B. 25   C. 16   D. 13
    ✅ Answer: B. 25

40. What is the next prime number after 47?
    A. 49   B. 51   C. 53   D. 59
    ✅ Answer: C. 53

41. What is the square root of 256?
    A. 12   B. 14   C. 16   D. 18
    ✅ Answer: C. 16

42. If 2x + 3 = 11, find x.
    A. 3   B. 4   C. 5   D. 6
    ✅ Answer: B. 4

43. Simplify: 6 + 3 × 2
    A. 18   B. 12   C. 15   D. 14
    ✅ Answer: B. 12

44. 2/5 of 25 is:
    A. 5   B. 10   C. 15   D. 12.5
    ✅ Answer: B. 10

45. A regular hexagon has how many sides?
    A. 4   B. 5   C. 6   D. 8
    ✅ Answer: C. 6

46. Solve: 15% of 200 = ?
    A. 25   B. 30   C. 35   D. 40
    ✅ Answer: B. 30

47. If $8^2 = 64$, then $9^2 = ?$
    A. 72   B. 80   C. 81   D. 90
    ✅ Answer: C. 81

48. What is HCF of 36 and 48?
    A. 6   B. 8   C. 12   D. 18
    ✅ Answer: C. 12

49. 0.75 × 100 = ?
    A. 50   B. 65   C. 75   D. 85
    ✅ Answer: C. 75

50. Area of rectangle 12 cm × 5 cm = ?
    A. 60   B. 65   C. 70   D. 72
    ✅ Answer: A. 60

51. $15^2 = ?$
    A. 215   B. 220   C. 225   D. 230
    ✅ Answer: C. 225

52. Value of $2^3 + 3^3 = ?$
    A. 27   B. 35   C. 31   D. 36
    ✅ Answer: C. 35

53. Perimeter of triangle with sides 7 cm, 9 cm, 10 cm = ?
    A. 25 cm   B. 26 cm   C. 27 cm   D. 28 cm
    ✅ Answer: C. 26 cm

54. Simplify: 100 ÷ (5 × 2)
    A. 5   B. 8   C. 10   D. 20
    ✅ Answer: C. 10

55. 45 ÷ 9 + 5 = ?
    A. 5   B. 9   C. 10   D. 15
    ✅ Answer: C. 10

56. Solve: (12 × 4) − (18 ÷ 3) = ?
    A. 42   B. 44   C. 46   D. 48
    ✅ Answer: A. 42

57. If 7x = 84, then x = ?
    A. 10   B. 11   C. 12   D. 13
    ✅ Answer: C. 12

58. Square root of 144 = ?
    A. 10   B. 11   C. 12   D. 13
    ✅ Answer: C. 12

59. Area of square with side 15 cm = ?
    A. 200   B. 215   C. 225   D. 230
    ✅ Answer: C. 225

60. Cube of 5 = ?
    A. 125   B. 150   C. 225   D. 250
    ✅ Answer: A. 125

✳️ Section 3: Everyday Mathematics (20 Questions)

61. A train covers 60 km in 1 hour. How much will it cover in 2.5 hours?
    A. 120 km   B. 100 km   C. 150 km   D. 160 km
    ✅ Answer: C. 150 km

62. If a pen costs ₹15, how many pens can you buy for ₹120?
    A. 6   B. 8   C. 10   D. 12
    ✅ Answer: B. 8

63. Rohan had ₹500. He bought a book for ₹325. How much is left?
    A. ₹125   B. ₹175   C. ₹150   D. ₹100
    ✅ Answer: B. ₹175

64. Electricity bill is ₹4.50 per unit. What is the bill for 100 units?
    A. ₹450   B. ₹400   C. ₹500   D. ₹425
    ✅ Answer: A. ₹450

65. A shopkeeper sells 1 kg sugar for ₹40. What is the price of 2.5 kg sugar?
    A. ₹90   B. ₹100   C. ₹105   D. ₹110
    ✅ Answer: B. ₹100

66. You bought 3 notebooks for ₹75. What is the cost of one notebook?
    A. ₹20   B. ₹25   C. ₹30   D. ₹35
    ✅ Answer: B. ₹25

67. Ria walks 2.4 km daily. How much distance does she cover in 5 days?
    A. 10.5 km   B. 11 km   C. 12 km   D. 13 km
    ✅ Answer: C. 12 km

68. You scored 40 out of 50. What percentage did you get?
    A. 80%   B. 85%   C. 90%   D. 95%
    ✅ Answer: A. 80%

69. Which unit is used to measure weight?
    A. Liter   B. Kilogram   C. Meter   D. Celsius
    ✅ Answer: B. Kilogram

70. If 1 USD = ₹75, how much is $10 in INR?
    A. ₹750   B. ₹700   C. ₹720   D. ₹730
    ✅ Answer: A. ₹750

71. A man earns ₹500 per day. How much in 7 days?
    A. ₹2500   B. ₹3000   C. ₹3500   D.

₹4000
✅ Answer: C. ₹3500

72. A car covers 120 km in 2 hours. Speed = ?
A. 50 km/h   B. 55 km/h   C. 60 km/h
D. 65 km/h
✅ Answer: C. 60 km/h

73. Cost of 12 chocolates = ₹180. Cost of 1 chocolate = ?
A. ₹10   B. ₹12   C. ₹15   D. ₹20
✅ Answer: C. ₹15

74. A box contains 240 apples equally in 12 baskets. Apples per basket = ?
A. 15   B. 18   C. 20   D. 22
✅ Answer: C. 20

75. If a student reads 20 pages daily, how many in 15 days?
A. 250   B. 280   C. 300   D. 320
✅ Answer: C. 300

76. Milk costs ₹30 per liter. What is the cost of 3.5 liters?
A. ₹90   B. ₹95   C. ₹100   D. ₹105
✅ Answer: D. ₹105

77. A shopkeeper sells a bat for ₹450 and gains ₹50. Cost price = ?
A. ₹400   B. ₹450   C. ₹500   D. ₹350
✅ Answer: A. ₹400

78. Ram spends ₹600 on food, ₹300 on travel, and saves ₹100. His total income = ?
A. ₹900   B. ₹950   C. ₹1000   D. ₹1100
✅ Answer: C. ₹1000

79. A water tank holds 250 liters. How many liters in 4 such tanks?

A. 1000   B. 1050   C. 1100   D. 1150
✅ Answer: A. 1000

80. A man deposits ₹2000 in a bank at 10% interest per year. Simple interest in 2 years = ?
A. ₹200   B. ₹300   C. ₹400   D. ₹500
✅ Answer: C. ₹400

🏆 Section 4: Achievers Section – HOTS (20 Questions)

81. If x + 2 = 3 and y – 1 = 2, what is x + y?
A. 2   B. 3   C. 4   D. 5
✅ Answer: D. 5

82. A rectangle has length 12 cm and area 96 cm². What is its breadth?
A. 6   B. 8   C. 10   D. 12
✅ Answer: B. 8

83. A number when doubled and added 8 gives 22. Find the number.
A. 6   B. 7   C. 8   D. 9
✅ Answer: B. 7

84. The average of 5, 7, 9 is:
A. 6   B. 7   C. 8   D. 9
✅ Answer: B. 7

85. If A = 1, B = 2, …, Z = 26, then what is the value of MATH?
A. 42   B. 49   C. 52   D. 51
✅ Answer: C. 52

86. Two angles of a triangle are 50° and 60°. What is the third angle?
A. 60°   B. 70°   C. 80°   D. 90°
✅ Answer: C. 70°

87. Which of the following numbers is divisible by 6?

A. 108   B. 107   C. 109   D. 111
✅ Answer: A. 108

88. If the cost of 4 pens and 3 notebooks is ₹110, and each pen is ₹10, find the cost of one notebook.
A. ₹20   B. ₹25   C. ₹30   D. ₹35
✅ Answer: C. ₹30

89. If the perimeter of a square is 44 cm, what is its side?
A. 10   B. 11   C. 12   D. 13
✅ Answer: B. 11

90. If 5 men can do a work in 12 days, how many days will 10 men take to complete the same work?
A. 6   B. 7   C. 8   D. 9
✅ Answer: A. 6

91. If 3a = 12, what is a^2?
A. 12   B. 14   C. 16   D. 18
✅ Answer: C. 16

92. A number is divisible by both 2 and 3. Which of these is divisible?
A. 21   B. 24   C. 25   D. 27
✅ Answer: B. 24

93. A man buys a cycle for ₹1200 and sells at a profit of 20%. Selling price = ?
A. ₹1300   B. ₹1350   C. ₹1400   D. ₹1440
✅ Answer: D. ₹1440

94. If 4x = 48, then (x + 2) = ?
A. 10   B. 12   C. 14   D. 15
✅ Answer: C. 14

95. The perimeter of rectangle is 30 cm. If length = 8 cm, breadth = ?
A. 6   B. 7   C. 8   D. 9
✅ Answer: B. 7

96. What is the simple interest on ₹5000 at 12% in 1 year?
A. ₹500   B. ₹550   C. ₹600   D. ₹650
✅ Answer: C. ₹600

97. Solve: (50 ÷ 5) + (6 × 2) = ?
A. 20   B. 22   C. 25   D. 26
✅ Answer: D. 26

98. Find the mean of 4, 6, 8, 10.
A. 6   B. 7   C. 8   D. 9
✅ Answer: B. 7

99. If 12 boys finish a work in 18 days, how many boys can finish it in 9 days?
A. 18   B. 20   C. 22   D. 24
✅ Answer: D. 24

100.   If perimeter of circle is 44 cm, find radius (Take π=22/7).
A. 6 cm   B. 7 cm   C. 8 cm   D. 9 cm
✅ Answer: B. 7 cm