

NACT Aptitude & Reasoning exam Practice Set
class-7th

Section 1: Logical Reasoning (30 Questions)

Q1. Find the missing number in the series: 3, 9, 27, 81, ?

- a) 162 b) 243 c) 324 d) 216

Ans: b

Q2. Which number comes next? 2, 6, 12, 20, ?

- a) 28 b) 30 c) 32 d) 34

Ans: b

Q3. If in a code, CAT = 3120, DOG = 4157, then BAT = ?

- a) 2120 b) 2130 c) 3121 d) 3130

Ans: b

Q4. A clock shows 5:15. What is the angle between the hour and minute hands?

- a) 67.5° b) 72° c) 75° d) 90°

Ans: a

Q5. In a row of students, Ramesh is 7th from the left and 9th from the right. How many students are there?

- a) 14 b) 15 c) 16 d) 17

Ans: b

Q6. Which is the odd one out?

- a) Square b) Triangle c) Rectangle d) Circle

Ans: b

Q7. If ALL = 36, CAT = 48, then DOG = ?

- a) 53 b) 52 c) 54 d) 51

Ans: c

Q8. Which term will replace the question mark?

4, 6, 9, 13, 18, ?

- a) 24 b) 25 c) 26 d) 27

Ans: b

Q9. Which number will replace the question mark?

7 : 56 :: 8 : ?

- a) 64 b) 72 c) 80 d) 88

Ans: c

Q10. If MONDAY is coded as 135462, then FRIDAY is coded as:

- a) 695462 b) 695142 c) 695412 d) 695421

Ans: a

Q11. Which letter will be the 7th to the right of the 15th letter from the left in the English alphabet?

- a) S b) T c) U d) V

Ans: c

Q12. What comes next? 1, 2, 6, 24, 120, ?

- a) 720 b) 600 c) 480 d) 7200

Ans: a

Q13. If 2 pencils cost ₹8, how many pencils can be bought for ₹40?

- a) 5 b) 8 c) 10 d) 12

Ans: c

Q14. Find the odd one out: 121, 169, 225, 144

- a) 121 b) 169 c) 225 d) 144

Ans: d

Q15. Which shape comes next in the sequence?

▲, ●, ▲, ●, ?

- a) ▲ b) ● c) ■ d) ★

Ans: a

Q16. If MONDAY is written as NOMDAY, how is FRIDAY written?

- a) RIFDAY b) IFRDAY c) FRDIAY d) RIFADY

Ans: a

Q17. A is taller than B, B is taller than C, C is taller than D. Who is the tallest?

- a) A b) B c) C d) D

Ans: a

Q18. Which comes next? 7, 14, 28, 56, ?

- a) 84 b) 112 c) 126 d) 140

Ans: b

Q19. A clock shows 3:15. What is the angle between hands?

a) 7.5° b) 30° c) 37.5° d) 90°

Ans: c

Q20. If '+' means 'x', '-' means '+', 'x' means '-', and '÷' means '-', then the value of $5 + 4 - 6 \times 2 \div 3$ is:

a) 23 b) 21 c) 20 d) 19

Ans: a

Q21. If A = 1, Z = 26, then the value of ACE is:

a) 9 b) 10 c) 11 d) 12

Ans: a

Q22. Which figure comes next? (Triangle rotating 90° each time)

a) Triangle up b) Right c) Down d) Left

Ans: c

Q23. If 2 = 🐱 and 3 = 🐶, what is 🐱 + 🐶?

a) 4 b) 5 c) 6 d) 2

Ans: b

Q24. Which day comes after Monday?

a) Tuesday b) Wednesday c) Thursday d) Friday

Ans: a

Q25. Which is the odd one out?

a) Apple b) Mango c) Carrot d) Orange

Ans: c

Q26. Which number completes the series? 2, 4, 8, 16, ?

a) 18 b) 24 c) 32 d) 64

Ans: c

Q27. Find the missing number: 6, 12, 24, 48, ?

a) 72 b) 84 c) 96 d) 108

Ans: c

Q28. Which is the smallest 4-digit number?

a) 9999 b) 1000 c) 1111 d) 1010

Ans: b

Q29. Which is heavier: 1 kg cotton or 1 kg iron?

a) Cotton b) Iron c) Equal d) None

Ans: c

Q30. Which number is divisible by both 3 and 5?

a) 25 b) 45 c) 60 d) Both b and c

Ans: d

Section 2: Verbal & Non-Verbal Reasoning (25 Questions)

Q31. Choose the word which is different from the rest:

a) Mango b) Apple c) Carrot d) Banana

Ans: c

Q32. Which one is not related to the others?

a) Cow b) Dog c) Goat d) Lion

Ans: d

Q33. Rearrange to form a meaningful sentence: the / park / in / children / playing / are

a) 4-6-5-3-2-1 b) 4-6-5-2-3-1 c) 4-6-5-3-1-2

d) 4-5-6-3-2-1

Ans: d

Q34. Find the odd pair:

a) Pen—Write b) Knife—Cut c) Spoon—Eat d) Book—Read

Ans: c

Q35. If TABLE is written as GZDOY, then CHAIR will be:

a) PXZRO b) XZQRO c) XZPRO d) XZQPO

Ans: b

Q36. Which figure completes the pattern?

(Given 3×3 matrix)

a) Fig A b) Fig B c) Fig C d) Fig D

Ans: b

Q37. If "FLOWER" is coded as 9131520, what is "PLANT"?

a) 16112120 b) 16112119 c) 16112118 d) 16112117

Ans: b

Q38. Find the missing term: 144, 169, 196, ?, 256

a) 210 b) 220 c) 225 d) 240

Ans: c

Q39. Spot the figure that is different from the rest:

a) Square with diagonal b) Square without diagonal c) Rectangle d) Rhombus

Ans: b

Q40. Which word does not belong?

a) Venus b) Mars c) Pluto d) Sun

Ans: d

Q41. The opposite of "Optimistic" is:

a) Cheerful b) Hopeful c) Pessimistic d) Realistic

Ans: c

Q42. The synonym of "Swift" is:

a) Slow b) Quick c) Lazy d) Steady

Ans: b

Q43. If NOSE is written as PQUG, then EAR becomes?

a) GCT b) GCR c) FCT d) GDR

Ans: a

Q44. Find the odd one:

a) Rose b) Lily c) Lotus d) Mango

Ans: d

Q45. Rearrange letters: "TALEW" → ?

a) WATER b) WETAL c) WEALT d) WETLA

Ans: a

Q46. Odd one out:

a) Iron b) Copper c) Silver d) Cotton

Ans: d

Q47. Which animal does not belong?

a) Whale b) Dolphin c) Shark d) Tiger

Ans: d

Q48. Synonym of "Brave":

a) Coward b) Courageous c) Weak d) Soft

Ans: b

Q49. Opposite of "Polite":

a) Kind b) Gentle c) Rude d) Sweet

Ans: c

Q50. Which shape is different?

a) Cube b) Sphere c) Triangle d) Cone

Ans: c

Q51. If "COLD" = "DPME", then "HEAT" = ?

a) IFBU b) IEBU c) HEBU d) HFBT

Ans: a

Q52. Choose the odd one:

a) 2, 4 b) 6, 8 c) 3, 9 d) 10, 12

Ans: c

Q53. Which does not belong?

a) Monday b) Sunday c) Tuesday d) Friday

Ans: b

Q54. Which one is different?

a) Chair b) Table c) Sofa d) School

Ans: d

Q55. Rearrange: "pen / writing / a / tool / is"

a) 1-2-3-4-5 b) 3-5-1-2-4 c) 1-3-5-2-4 d) 3-1-2-4-5

Ans: b

Section 3: Mental Ability (25 Questions)

Q56. What should come next? 2, 5, 10, 17, 26, ?

a) 37 b) 38 c) 39 d) 40

Ans: a

Q57. Ravi walks 10 km north, then 6 km east.

How far is he from his starting point?

a) 12 km b) 14 km c) 16 km d) 18 km

Ans: b

Q58. If 8 men can do a job in 12 days, how

many days will 6 men take?

a) 14 b) 15 c) 16 d) 18

Ans: c

Q59. A man spends $\frac{2}{5}$ of his salary on rent and $\frac{3}{10}$ on food. What fraction is left?

a) $\frac{1}{5}$ b) $\frac{3}{10}$ c) $\frac{9}{20}$ d) $\frac{11}{20}$

Ans: c

Q60. A train running at 60 km/hr takes 3 hours to cover a distance. Find the distance.

a) 150 km b) 160 km c) 170 km d) 180 km

Ans: d

Q61. Which is the smallest prime number greater than 50?

a) 51 b) 53 c) 59 d) 61

Ans: b

Q62. If $3 \times 3 = 18$, $4 \times 4 = 32$, then $5 \times 5 = ?$

a) 45 b) 48 c) 50 d) 52

Ans: c

Q63. Which fraction is equal to 0.75?

a) $\frac{3}{5}$ b) $\frac{3}{4}$ c) $\frac{2}{3}$ d) $\frac{4}{5}$

Ans: b

Q64. If the area of a square is 144 cm^2 , find its perimeter.

a) 36 cm b) 44 cm c) 48 cm d) 52 cm

Ans: c

Q65. $\frac{1}{4}$ of $\frac{2}{3}$ of ₹240 is:

a) ₹30 b) ₹40 c) ₹50 d) ₹60

Ans: b

Q66. The average of 10, 20, and 30 is:

a) 15 b) 20 c) 25 d) 30

Ans: b

Q67. A box contains 4 red, 5 blue, and 6 green balls. Total balls?

a) 14 b) 15 c) 16 d) 17

Ans: c

Q68. If 12 books cost ₹240, what is the cost of 1 book?

a) ₹15 b) ₹18 c) ₹20 d) ₹22

Ans: c

Q69. The HCF of 18 and 24 is:

a) 2 b) 3 c) 6 d) 12

Ans: c

Q70. The LCM of 4, 6, 8 is:

a) 12 b) 24 c) 36 d) 48

Ans: d

Q71. If 15% of a number is 45, find the number.

a) 200 b) 250 c) 300 d) 350

Ans: c

Q72. Simplify: $72 \div 9 + 6 \times 3$

a) 24 b) 26 c) 28 d) 30

Ans: b

Q73. The square root of 225 is:

a) 13 b) 14 c) 15 d) 16

Ans: c

Q74. If $4x = 36$, find x.

a) 6 b) 7 c) 8 d) 9

Ans: d

Q75. The perimeter of a rectangle is 60 cm. If length = 20 cm, breadth = ?

a) 10 b) 15 c) 20 d) 30

Ans: b

Q76. $15 \times 12 = ?$

a) 160 b) 170 c) 180 d) 190

Ans: c

Q77. If $2x + 5 = 15$, find x.

a) 3 b) 4 c) 5 d) 6

Ans: b

Q78. Which number is a multiple of both 8 and 12?

a) 24 b) 32 c) 36 d) 48

Ans: d

Q79. Which is greater: $\frac{2}{3}$ or $\frac{3}{5}$?

a) $\frac{2}{3}$ b) $\frac{3}{5}$ c) Equal d) Cannot say

Ans: a

Q80. The average of first 10 natural numbers is:

a) 5 b) 5.5 c) 6 d) 6.5

Ans: b

Section 4: Achievers Section (HOTS) – 20

Questions

Q81. Which number will replace the question mark?

8, 27, 64, 125, ?

a) 150 b) 200 c) 216 d) 225

Ans: c

Q82. In a certain code, PENCIL is coded as QFODJM. How will ERASER be coded?

a) FSBTFQ b) FSBTFQ c) FSBTFS d) FSBTER

Ans: c

Q83. A sum of money doubles itself in 5 years. In how many years will it become four times?

a) 8 b) 10 c) 12 d) 15

Ans: b

Q84. If 5 cats can catch 5 mice in 5 minutes, how many cats are needed to catch 100 mice in 100 minutes?

a) 5 b) 10 c) 20 d) 25

Ans: a

Q85. Which figure will be formed by folding the given net?

a) Cube b) Cylinder c) Pyramid d) Cone

Ans: a

Q86. What is the missing number?

$$3 \times 4 + 5 = 17$$

$$5 \times 6 + 7 = 37$$

$$7 \times 8 + 9 = ?$$

a) 65 b) 66 c) 67 d) 68

Ans: b

Q87. A container is $\frac{1}{4}$ full. If 12 liters are added, it becomes $\frac{2}{3}$ full. What is its capacity?

a) 18 L b) 24 L c) 36 L d) 48 L

Ans: c

Q88. If $2x + 3 = 11$, find x .

a) 3 b) 4 c) 5 d) 6

Ans: b

Q89. Find the missing term: 2, 6, 12, 20, 30, ?

a) 40 b) 42 c) 44 d) 46

Ans: b

Q90. Which of the following is not a leap year?

a) 2000 b) 1900 c) 2016 d) 2020

Ans: b

Q91. If $9^2 + 16 = ?$

a) 97 b) 98 c) 99 d) 100

Ans: b

Q92. A train 120 m long passes a man in 12 seconds. Speed?

a) 8 m/s b) 10 m/s c) 12 m/s d) 14 m/s

Ans: b

Q93. If $A = 1, B = 2, \dots Z = 26$, then value of WORD = ?

a) 60 b) 62 c) 64 d) 66

Ans: d

Q94. A sum triples in 10 years. Rate of SI per annum?

a) 10% b) 15% c) 20% d) 25%

Ans: c

Q95. What is next: 1, 4, 9, 16, 25, ?

a) 30 b) 35 c) 36 d) 40

Ans: c

Q96. Which letter is in the middle of English alphabet?

a) M b) N c) O d) P

Ans: b

Q97. If 6 men take 12 days, how long will 4 men take?

a) 16 b) 18 c) 20 d) 22

Ans: c

Q98. Find the next prime after 97.

a) 99 b) 101 c) 103 d) 107

Ans: b

Q99. The cube root of 512 is:

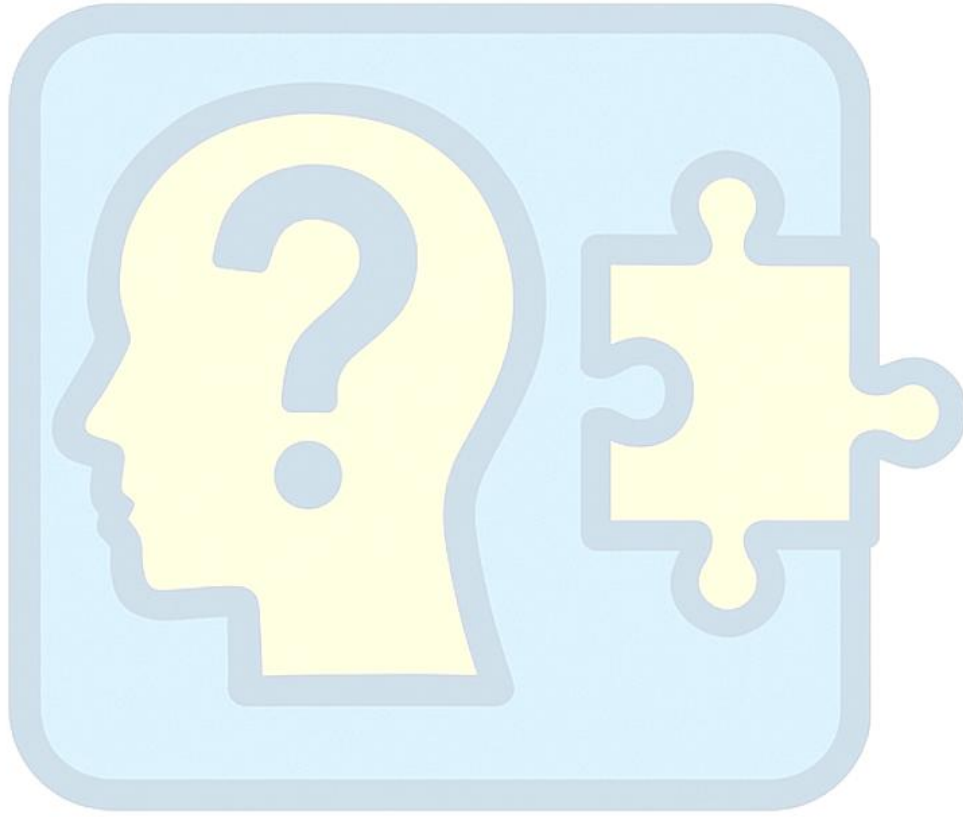
a) 6 b) 7 c) 8 d) 9

Ans: c

Q100. If 3 boys eat 3 chocolates in 3 minutes,
how many will 9 boys eat in 9 minutes?

a) 9 b) 18 c) 27 d) 36

Ans: c



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APTITUDE & REASONING EXAM