



NATIONAL LEVEL SCIENCE TALENT SEARCH EXAMINATION

CLASS - 3

Question Paper Code : 10109

KEY

1. D	2. A	3. D	4. C	5. D	6. B	7. C	8. D	9. D	10. C
11. C	12. B	13. B	14. A	15. B	16. C	17. A	18. B	19. A	20. D
21. D	22. D	23. C	24. C	25. C	26. B	27. A	28. C	29. D	30. B
31. D	32. C	33. D	34. D	35. D	36. C	37. B	38. A	39. A	40. C
41. C	42. A	43. B	44. D	45. B	46. D	47. A	48. C	49. D	50. C
51. B	52. C	53. A	54. B	55. C	56. C	57. C	58. B	59. C	60. A

SOLUTIONS

MATHEMATICS

01. (D) Rope C = 148 cm

$$\text{Rope B} = \frac{148}{2} \text{ cm} = 74 \text{ cm}$$

$$\begin{aligned} \text{Rope A} &= 74 \text{ cm} - 36 \text{ cm} \\ &= 38 \text{ cm} \end{aligned}$$

02. (A) Since there are 12 months in one year, multiplying 7 years by 12 gives the total number of months in 7 years.

$$7 \times 12 = 84 \text{ months}$$

03. (D) To make an odd number even, you need to multiply it by the smallest even number which is 2, because multiplying

any number by 2 always result an even number.

04. (C) $9 - 3 = 6$

in $\frac{3}{9}$ The numerator is 6 less than denominator

05. (D) 12 : 00 noon is 12 : 00 p.m.

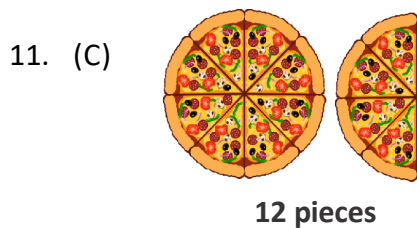
06. (B) In the number 6568, the digit 6 is in both the thousands place (first digit) and the tens place (fourth digit).

07. (C) No. of rats = 30

No. of holes = 5

$$\text{No. of rats in each hole} = 30 \div 5 = 6$$

08. (D) $3 \times 3 \times 10 = 90$
09. (D) $271 \times 3 = 987$ (odd)
 $141 \times 5 = 705$ (odd)
 $271 \times 7 = 1897$ (odd)
 $128 \times 3 = 384$ (Even)
10. (C) The number must be less than 186 and greater than 110
Among the option only 134 satisfy the condition



$$12 \div 3 = 4$$

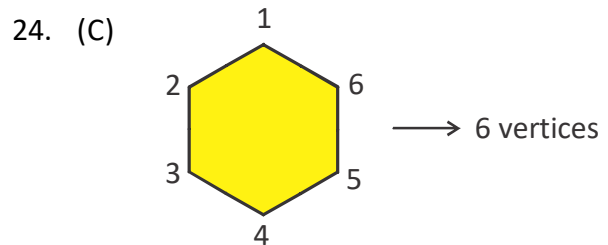
12. (B) Number of beads with Preeti = 544
Number of beads with Rani = $544 + 150 = 694$
Number of beads with Kamala = $694 + 81 = 775$
Total number of beads = $544 + 694 + 775 = 2013$
13. (B) Rs. $50 \times 10 =$ Rs. 500
Rs. $50 \times 10 =$ Rs. 200
Rs. $500 +$ Rs. 200 = Rs. 700
14. (A) Rs. $250.04 -$ Rs. 97.98 = 152.06
15. (B) $5000 - 2652 = 2318$
16. (C) $405 \text{ ml} \times 4 = 1620 \text{ ml}$
17. (A) If you are going on holiday on the 23rd Nov for 10 days, you will return on the 3rd December. This is because 7 days brings you to 30th Nov & adding the remaining 3 days takes you to 3rd December
18. (B) Any number divided by itself give one
19. (A) Number of tomatoes in 1 bunch
 $= 792 \div 36 = 22$

20. (D) $400 \text{ g} - 100 \text{ g} = 300 \text{ g}$
 $300 \text{ g} \div 2 = 150 \text{ g}$
 $150 \text{ g} + 100 \text{ g} = 250 \text{ g}$
21. (D) $17 \div 4 = 4 \text{ R}1$; $300 \div 4 = 75 \text{ R}0$
 $133 \div 4 = 33 \text{ R}1$; $451 \div 4 = 112 \text{ R}3$

22. (D) Option (A) : 3944
Option (B) : 5239
Option (C) : 3166
Option (D) : 3779

23. (C) Total Parts = 8
Unshaded parts = 3

$$\text{fraction of unshaded part} = \frac{3}{8}$$



25. (C) A cube is a special shape where all sides are of the same length & it has 8 corners, 12 equal Edges & 6 flat square faces.

GENERAL SCIENCE

26. (B) Due to growth Giraffe grows taller.
27. (A) Squirrel is a mammal. It gives birth to young one.
28. (C) Deer and fish are consumers.
29. (D) A basic need of both plant and animals is water
30. (B) Flowers produce seeds.
31. (D) Bat is a mammal. It does not have feathers as birds.
32. (C) Sun \rightarrow grass \rightarrow rat \rightarrow owl is the correct order of energy flow in a food chain.
33. (D) the deer depends on plants to get food, shelter and air to survive.

34. (D) Sunlight is the main source of energy for the water cycle.
35. (D) The earth takes one year to complete one path around the sun.
36. (C) The next phase in the sequence is full moon.



37. (B) A wet towel becomes dry due to evaporation.
38. (A) Goat is a herbivore.
39. (A) Reproduction is common to all living things.
40. (C) Spring balance is used to find the weight of a balloon that is filled with water.
41. (C) The arctic bird stores fat and grows big.
42. (A) Ice is solid water that has a definite shape and a definite volume.
43. (B) Liquid loses heat and change to solid water by freezing.
44. (D) Chickens scratch around. They eat grass, seeds and grains. But they also eat small slugs, worms and insects.
45. (B) Due to the rotation of earth part X moves away from the sun. Hence it becomes dark.
46. (D) Duck, goose and pelican have webbed feet.
47. (A) Air has no definite shape and no definite volume.
48. (C) The Sun is the source of energy for the water cycle.
49. (D) Plants that release carbondioxide during night is not one of the uses of plants and trees to us.
50. (C) If there is a break in bone it is called fracture.
51. (B) The water on boiling will turn into a gas.
52. (C) Rabbit is an example of a prey.

53. (A) The symbol  shows school ahead.

54. (B) Roots of plants help plants stay fixed to the ground.
55. (C) Frog can live both on land and in water.

CRITICAL THINKING

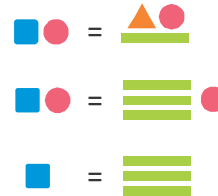
56. (C) When the buckets are tied with equal length strings, the heavier bucket will move down because it is pulled more strongly by gravity. The lighter bucket will go up as the heavier one pulls it down.



57. (C)

58. (B) Copying answers during a test is called cheating and it's not fair to others. You should explain that its important for every one to try their best and learn on their own, so their own, so they can get better next time.

59. (C)



60. (A)

$$\begin{array}{c} \boxed{18} \\ \boxed{21} \quad \boxed{11} \quad \boxed{17} \\ \boxed{20} \end{array} = \begin{array}{l} 18 + 20 = 38 \\ 17 + 21 = 38 \end{array} \left. \vphantom{\begin{array}{c} \boxed{18} \\ \boxed{21} \quad \boxed{11} \quad \boxed{17} \\ \boxed{20} \end{array}} \right\} 3 + 8 = 11$$

$$\begin{array}{c} \boxed{?} \\ \boxed{8} \quad \boxed{2} \quad \boxed{12} \\ \boxed{19} \end{array} = \begin{array}{l} 8 + 12 = 20 \\ 19 + 1 = 20 \end{array} \left. \vphantom{\begin{array}{c} \boxed{?} \\ \boxed{8} \quad \boxed{2} \quad \boxed{12} \\ \boxed{19} \end{array}} \right\} 2 + 0 = 2$$

$$\begin{array}{c} \boxed{24} \\ \boxed{17} \quad \boxed{4} \quad \boxed{23} \\ \boxed{16} \end{array} = \begin{array}{l} 24 + 16 = 40 \\ 17 + 23 = 40 \end{array} \left. \vphantom{\begin{array}{c} \boxed{24} \\ \boxed{17} \quad \boxed{4} \quad \boxed{23} \\ \boxed{16} \end{array}} \right\} 4 + 0 = 4$$