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NATIONAL LEVEL SCIENCE TALENT SEARCH EXAMINATION (UPDATED)

CLASS - 3
Question Paper Code : 1O109

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. C	59. C	60. A

SOLUTIONS

MATHEMATICS

01. (D)   Rope C = 148 cm

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

Rope A = 74 cm – 36 cm

= 38 cm

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 × 12 = 84 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

No. of rats in each hole = 30 ÷ 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

11. (C)

12 pieces

$12 \div 3 = 4$

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 × 10 = Rs. 500
		Rs. 50 × 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 ml × 4 = 1620 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 ÷ 36 = 22

|		
20.	(D)	400 g − 100 g = 300 g
		300 g ÷ 2 = 150 g
		150 g + 100 g = 250 g
21.	(D)	17 ÷ 4 = 4 R1 ; 300 ÷ 4 = 75 R0
		133 ÷ 4 = 33 R1 ; 451 ÷ 4 = 112 R3
22.	(D)	Option (A) : 3944
		Option (B) : 5239
		Option (C) : 3166
		Option (D) : 3779
23.	(C)	Total Parts = 8
		Unshaded parts = 3
		fraction of unshaded part = $\dfrac{8}{8}$

24. (C)

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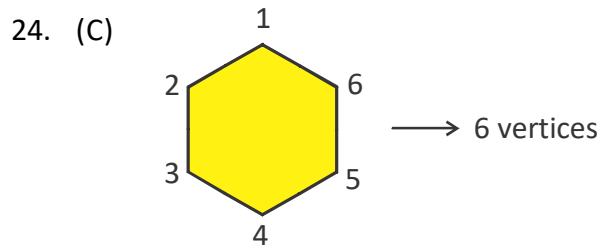
25. (C) A cube is a special shape where all sides are of the same length & it has 8 corners, 12 equal Edges & 6 flat square faces.

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 → grass → rat → 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. |
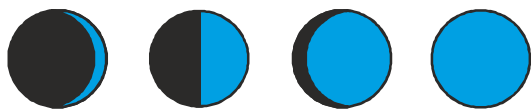
37.	(B)	A wet towel becomes dry due to evaporation.
38.	(A)	Goat is a herbivore.
39.	(A)	Reproduction is common to all living things.
40.	(C)	Spring balance is used to find the weight of a balloon that is filled with water.
41.	(C)	The arctic bird stores fat and grows big.
42.	(A)	Ice is solid water 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. (C) If your friend tries to copy your answers during a test, it is important to act responsibly.

- Hiding your answers prevents your friend from cheating and ensures fairness in the test.

- Informing the teacher helps maintain the integrity of the exam and ensures that appropriate action is taken.

- Cheating is unfair to everyone, including you, as it diminishes the value of honest work.

- Reporting the situation is a responsible way to protect yourself and uphold academic honesty.

59. (C)

60. (A)

$= 18 + 20 = 38$
$17 + 21 = 38$] $3 + 8 = 11$

$= 8 + 12 = 20$
$19 + 1 = 20$] $2 + 0 = 2$

$= 24 + 16 = 40$
$17 + 23 = 40$] $4 + 0 = 4$