



NATIONAL LEVEL SCIENCE TALENT SEARCH EXAMINATION

CLASS - 3

Question Paper Code : 1P114

KEY

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

SOLUTIONS

MATHEMATICS

01. (B) First number from 5 to 8 \rightarrow 5

Second number, 2 to 102 \rightarrow 2

Least possible $5 + 2 = 7$

02. (A) $7 + (0 \times 2) = 7 + 0 = 7$

$7 + (0 \div 2) = 7 + 0 = 7$

$7 + (2 \times 0) = 7 + 0 = 7$

03. (A) A

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} 800

B

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5 units \rightarrow 800

1 unit $\rightarrow 800 \div 5 = 160$

2 units $\rightarrow 160 \times 2 = 320$

The value of Number A is 320.

04. (B) One digit must be greater than tens digit

Count = $8 + 7 + 6 + 5 + 4 + 3 + 2 + 1 = 36$

05. (D) There are 100 teeth ? 100 gaps.

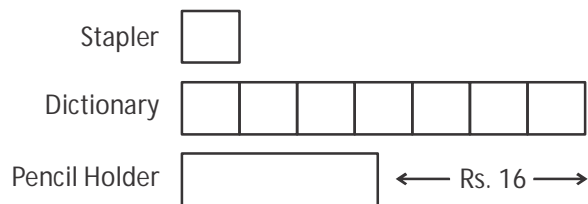
Each tooth = 1 mm, each gap = 1 mm.

Total length = $100 + 99 = 199$ mm (no gap after last tooth).

= 19 cm 9 mm

06. (B) Total stickers Jhonny has:
Start: 215
Buys: $+112 = 327$
Gives away: $-26 = 301$
Jhonny has 301 stickers.
07. (C) 1 dozen = 12 eggs
 $158 \div 12 = 13$ remainder 2 \rightarrow needs one extra box
08. (B) $100 \text{ g} + 250 \text{ g} + 250 \text{ g} + 500 \text{ g} + 500 \text{ g}$
 $= 1600 \text{ g}$
 $1600 \text{ g} - 1300 \text{ g} = 300 \text{ g}$
 $4 \rightarrow 300 \text{ g}$
 $1 \rightarrow 300 \text{ g} \div 4 = 75 \text{ g}$
09. (A) Total squares: $4 \times 4 = 16$
 $\frac{3}{4}$ of 16 = 12 squares should be shaded.
Already shaded: 5
Need more: $12 - 5 = 7$
10. (B) 4200 and 1200 end with 00 \rightarrow divisible by 100.
11. (C) $400 \text{ m} / + 400 \text{ m} / + 100 \text{ m} /$
12. (D) Fraction of (A) = $\frac{3}{9} = \frac{1}{3}$
Fraction of (B) = $\frac{3}{12} = \frac{1}{4}$
Fraction of (C) = $\frac{3}{8}$
Fraction of (D) = $\frac{3}{6} = \frac{1}{2}$ (greatest)
13. (A) Original stickers = $100 + (48 + 29 - 11) = 166$
14. (B) Options B satisfies his collection.
15. (D) The least odd number = 1 and the least even number is 2. The required least number = 2

16. (B)



- 1 unit Rs. 4
7 units Rs. 4×7
 $= \text{Rs. } 28$ (pencil holder)
 $\text{Rs. } 28 - \text{Rs. } 16 = \text{Rs. } 12$ (pencil holder)
 $\text{Rs. } 12 \times 6 = \text{Rs. } 72$
17. (D) The duration between 7 p.m. on a Monday to 10 a.m. on Tuesday is 15 hours. (Since, 7 p.m. to 12 midnight is 5 hours and 12 midnight to 10 a.m. is 10 hours.)
18. (B) Options B satisfies his collection.
19. (D) $1000 \text{ m} / \div 5 = 200 \text{ m} /$
20. (B)
- | Smaller Number | Greater Number | Difference |
|----------------|----------------|---------------|
| 2 | 12 | $12 - 2 = 10$ |
| 3 | 8 | $8 - 3 = 5$ |
21. (C) $108 + 3 = 36$ (number of sticks needed)
 $36 \div 12 = 3$
22. (B) 1. Each cake is cut into 4 big pieces.
 $\rightarrow 1 \text{ cake} = 4 \text{ big pieces.}$
2. Each big piece is cut again into 3 small pieces.
 $\rightarrow 1 \text{ big piece} = 3 \text{ small pieces.}$
So, $1 \text{ cake} = 4 \times 3 = 12 \text{ small pieces.}$
3. There are 2 cakes.
 $\rightarrow 2 \text{ cakes} = 2 \times 12 = 24 \text{ small pieces.}$
4. Each person got 1 piece, and 3 pieces were left over.
So, people got $= 24 - 3 = 21 \text{ pieces.}$
23. (B) (A) 5668 \rightarrow thousands = 5 , tens = 6
(B) 6568 \rightarrow thousands = 6 , tens = 6
(C) 6685 \rightarrow thousands = 6 , tens = 8
(D) 8656 \rightarrow thousands = 8 , tens = 5

24. (C) $\frac{3}{8}$ is the fraction not shaded

25. (D) $T = 2 \times 4$

$$6 = 2 \times 3$$

$$U = H - 1 = 3 - 1 = 2$$

$$3 + 6 + 2 = 11$$

GENERAL SCIENCE

26. (A) Grow underground as roots

These are root vegetables that store nutrients below soil, differing from fruits or leafy vegetables.

27. (B) They use twigs for building nests

The image shows birds and squirrels collecting twigs to construct safe nests, demonstrating how animals use plant materials for shelter and raising young.

28. (C) Plants and animals support each other

This represents a mutual relationship—plants feed animals, and animal waste returns nutrients to the soil, aiding new plant growth.

29. (C) Producers

Producers like plants use sunlight to create food through photosynthesis, forming the base of the food chain.

30. (B) Egg is a body building food. It is rich in proteins. It helps to build our muscles strong whereas bread is rich in carbohydrates which is an energy giving food and spinach and mango are rich in vitamins and minerals, which are protective foods.

31. (B) We should always eat fresh and covered food. We should avoid eating junk food or eat it occasionally.

32. (A) Humus, silt, clay and sand all are parts of soil

33. (C) P-2, Q-4, R-1, S-3

34. (B) Millilitre units is used to measure the weight of milk.

35. (A) It makes the air dirty and harmful to breathe.

Burning trash releases dirty smoke that is bad for people, animals, and plants.

36. (B) Herb

Herbs are small, non-woody plants with soft stems. They often lack branches and remain close to the ground.

37. (A) The system which helps us in taking food and making it ready for use by the body is digestive system.

38. (D) Wear a safety helmet while riding a motorcycle

39. (A) Stilt houses are made almost ten to twelve feet above the ground on wooden poles or on strong bamboo pillars. These houses are made on water logged areas.

40. (B) Woollen clothes are worn in winter and cotton clothes are worn in summer.

41. (C) Because the Sun's light shines on different parts of the Moon while it is orbiting and rotating around the earth.

42. (C) Using old things in new ways (Reuse).
This is "Reuse" because the tyre is not trash; it gets a new job.

43. (B) Grains, protein, vegetables and dairy
This combination provides carbohydrates, protein, vitamins, minerals and calcium for holistic nutrition.

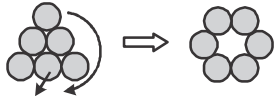
44. (B) Plant → Deer → Lion
Energy starts from the sun to plants (producers), then to plant-eaters (deer), and finally to meat-eaters (lions).

45. (B) It will dry out without water
A detached leaf has no root system to absorb water. In sunlight, it loses moisture through transpiration and wilts quick

46. (D) Marble is not an igneous rock.

47. (A) Heart is located in our chest.
48. (A) Volume of Bucket of water can be measured in liters. Volume of Cup of coffee can be measured in ml. Weight of Box of cherries; bananas can be measured in grams. Weight of Birthday cake can be measured in Kg.
49. (B) Water droplets are formed on the surface of juice bottle, which is taken out from a freezer due to the moisture in the surrounding air.
50. (A) Making and baking clay pots
The pictures depict the key stages of pottery-making: shaping wet clay on a wheel and then baking (firing) the finished pots to harden them.
51. (B) Prevents contamination
Covers block insects, dust and germs from contacting food, maintaining hygiene and safety.
52. (A) A climber seeking support
Climbers like beans or peas have weak stems and use tendrils to coil around supports for upward growth.
53. (A) Stomach digestive system
Lungs respiratory system.
Blood circulatory system
Brain nervous system.
54. (B) 7 hrs and 20 minutes $20 + 40 = 60$ minutes = 1 hour
 $7 + 1 = 8$. So Sana finishes her jogging at 8:00 am.
55. (B) To make something new from old things

CRITICAL THINKING

56. (D) $\diamond\diamond\diamond\diamond\diamond\diamond = \diamond\diamond\diamond\square$
 $\square = \diamond\diamond\diamond$
 $\square = \diamond\diamond\diamond\diamond\diamond\diamond\diamond\diamond$
57. (A) Refraction can cause the pencil to appear bent or broken at the water's surface and to create optical illusions that affect our perception of objects.
58. (B) 
59. (D) Kavya eats 2 more than Priya.
Riya eats 3 less than Kavya.
Sanya eats 1 more than Riya and 3 less than Tanya.
Counting:
Priya = some number
Kavya = 2 more than Priya
Riya = 1 less than Kavya
Sanya = same as Priya
Tanya = 3 more than Priya
60. (C) The names of the parts of the Hand are given which can be arranged in a sequence from top to bottom, e.g. Shoulder, Elbow, Wrist, Palm, and Finger.