





NATIONAL LEVEL SCIENCE TALENT SEARCH EXAMINATION (UPDATED)

CLASS - 4

Question Paper Code : 1P204

KEY

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

SOLUTIONS

MATHEMATICS

01. (D) $(200 + 6) \times 80 = (200 \times 80) + (6 \times 80)$

02. (D)
$$5\frac{1}{3}$$

- 03. (B) 1070 g = 1 kg 70 g
- 04. (B) Perimeter of triangle = 4 cm + 7 cm + 9 cm = 20 cm

Perimeter of square = 20 cm

Length of each side = $\frac{20 \text{ cm}}{4}$

= 5 cm

05. (D) Mother dog + 3 puppies = 32 kg Mother dog = 3 puppies $\therefore \qquad \text{Mother dog} = \frac{32 \text{ kg}}{2} = 16 \text{ kg}$ 06. (B)

- 06. (B)
- 07. (D) 1000 ÷ 200 = 5

This means there are 5 groups of 200 words

... 5 groups × 5 mistakes per group = 25 mistakes

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| 08. | (B) | (5 + 10 + 15 + 25) min = 55 mins | | | | | |
|-----|-------|--|--|--|--|--|--|
| | | 7:30 am – 55 mins = 6:35 am. | | | | | |
| 09. | (B) | A quadrilateral that has all sides equal is called a rhombus, which looks like a slanted square. | | | | | |
| 10. | (B) | DCV = 605 | | | | | |
| 11. | (C) | 1 lakh = 100 thousand | | | | | |
| 12. | (Dele | te) | | | | | |
| 13. | (D) | 43 + 43 = 86 , 52 + 52 = 104 , 12 + 12 = 24 | | | | | |
| | | 33 + 33 = 66 | | | | | |
| 14. | (C) | No. of beads given in the abacus in hundred's place = 9 | | | | | |
| | | To get the number between 500 and 550, | | | | | |
| | | No. of beads required = 5 | | | | | |
| | | No. of beads to be removed = $9 - 5 = 4$ | | | | | |
| | | Answer is option (C) | | | | | |
| 15. | (A) | 862 – 245 = 617 | | | | | |
| | | 617 + 167 = 784 | | | | | |
| 16. | (D) | There are 14 unit squares in option (D) | | | | | |
| | | 1 2 3 4 5 6 7 8 9 10 11 12 13 | | | | | |
| 17. | (A) | 1 m = 100 cm | | | | | |
| | | $\frac{100 \text{ cm}}{50} = 2 \text{ cm}$ | | | | | |
| 18. | (C) | The mass of Tarun's sister = (75 – 22) kg | | | | | |
| | | = 53 kg | | | | | |
| | | Total mass of Tarun and his sister | | | | | |
| | | 75 kg | | | | | |
| | | + 53 kg 128 kg | | | | | |
| 19. | (B) | 32 × 23 = 736 | | | | | |
| 20. | (B) | Unit 5 is at thousand's place, | | | | | |
| | | TT T HUNDRED TEN ONE | | | | | |
| | | 4 5 2 3 6 | | | | | |
| | • | Place value of 5 = 5 × 1000 = 5000 | | | | | |
| | • | Answer is option (B) | | | | | |
| 21 | (C) | 63945 > 63495 | | | | | |
| ~1. | (0) | | | | | | |

22. (C) 6)23(3 18 So mixed fraction can be written as $\mathsf{Quotient}\left(\frac{\mathsf{Remainder}}{\mathsf{Divisor}}\right)$ $\frac{23}{6}$ as a mixed number is $3\frac{5}{6}$ 23. (B) The numeral for eleven million eleven thousand eleven is 11,011,011 $100 \times 1000 \times 1 = 100000$ 24. (B) 25. (B) 53899, 54598, 58455, 58459 are in ascending order. **GENERAL SCIENCE** 26. (A) saprophytes. embryo from trauma.

- Living thing labelled as 1 is mushroom. Mushroom is a fungi. Fungi are
- 27. (D) If all the flowers of a mango tree are removed, the tree will not produce fruits.
- 28. (C) Bird's egg have hard shells to protect the
- Solar energy was converted to light and 29. (B) heat energy.
- 30. (B) Some animals hibernate in the winter to adapt to environemntal changes.
- 31. (B) Lion is a carnivore.
- Cockroach young one undergoes 32. (A) moulting to form into an adult.
- Sound energy is produced when a guital 33. (D) string vibrates.
- If you breathe on a mirror, the mirror 34. (A) steams up ... When the water vapor from your breath hits the cold mirror, some of it turns into a liquid. Thousands of tiny droplets of water form on the mirror, and this is called condensation.
- 35. (B) Hand lens magnifies the things.
- 36. (D) It is condensed from the water vapour in air.
- 37. (B) Growth and development occur in the life span of all animals.

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- 38. (C) The sharp spines on the cactus help it to keep animals away from the plant.
- 39. (B) Woollen blanket traps body heat and keeps body warm during winter.
- 40. (B) Earth is the third planet. It supports life as it has air and water.
- 41. (A) Plants in option (A) is sundew an insectivorous plant, that grow in nutrition deficient soil. Hence, it eats insects and also can make its on food.
- 42. (D) Bread, biscuit and chapati are made from flour of cereals. Butter, ghee and cheese are made from milk.
- 43. (C) 1: Nitrogen;
 - 2 : Oxygen;
 - 3 : Other gases
- 44. (D) A tooth decay results in bad breathe, cavities and toothache. It is due to the growth of bacteria.
- 45. (B) An apple fall down when it gets detached from the tree due to gravitational force.
- 46. (B) Q stage in the butterfly lifecycle is called pupa. It undergoes changes to become an adult. The process is called metamorphosis.
- 47. (C) Rain, snow and sleet are precipitation.
- 48. (B) Insects have three body parts. Head, thorax and abdomen.
- 49. (A) Plants make their food in the presence of sunlight taking in water from the soil and carbon dioxide from the air.
- 50. (B) Option (B) is large intestine it absorbs water from undigested food.
- 51. (C) Balloon filled with air can be compressed easily.
- 52. (D) Nymph is the larval stage of cockroach.
- 53. (B) Water is essential to life, exists in three states, it has mass and occupies space.
- 54. (C) Earth's gravity is responsible for objects being pulled towards the ground.
- 55. (D) The correct order of the frog's life cycle is eggs, larva, tadpole and an adult frog.

CRITICAL THINKING



57. (B) Tomorrow

The day before yesterday was two days ago; the day after the day before yesterday was yesterday; two days after that (yesterday) is tomorrow.

- 58. (B) Given the equations:
 - 1. M + C = 80
 - 2. F + C = 100
 - 3. F + M = 140

Adding all three equations:

(M + C) + (F + C) + (F + M) = 80 + 100 + 140

This simplifies to:

M + C + F + C + F + M = 320

2M + 2F + 2C = 320

M + F + C = 160

Therefore, the combined weight of the family is 160 kg

M + F + C = 160 kg

59. (B) 5 triangles





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