MOTION

Nurturing potential through education

NATIONAL LEVEL SCIENCE TALENT SEARCH EXAMINATION

CLASS - V

ANSWER KEY

1.	(D)	**2.**	(B)	**3.**	(A)	**4.**	(A)	**5.**	(B)	**6.**	(C)	**7.**	(B)
8.	(B)	**9.**	(B)	**10.**	(A)	**11.**	(D)	**12.**	(B)	**13.**	(D)	**14.**	(B)
15.	(D)	**16.**	(B)	**17.**	(B)	**18.**	(A)	**19.**	(C)	**20.**	(D)	**21.**	(C)
22.	(B)	**23.**	(C)	**24.**	(D)	**25.**	(D)	**26.**	(C)	**27.**	(D)	**28.**	(A)
29.	(B)	**30.**	(C)	**31.**	(B)	**32.**	(C)	**33.**	(B)	**34.**	(B)	**35.**	(D)
36.	(C)	**37.**	(C)	**38.**	(C)	**39.**	(A)	**40.**	(D)	**41.**	(A)	**42.**	(C)
43.	(A)	**44.**	(C)	**45.**	(B)	**46.**	(C)	**47.**	(D)	**48.**	(C)	**49.**	(B)
50.	(A)	**51.**	(C)	**52.**	(D)	**53.**	(B)	**54.**	(B)	**55.**	(B)	**56.**	(D)
57.	(D)	**58.**	(C)	**59.**	(B)	**60.**	(C)	**61.**	(D)	**62.**	(D)	**63.**	(A)
64.	(B)	**65.**	(B)	**66.**	(B)	**67.**	(B)	**68.**	(B)	**69.**	(B)	**70.**	(C)
71.	(B)	**72.**	(A)	**73.**	(A)	**74.**	(A)	**75.**	(B)	**76.**	(A)	**77.**	(B)
78.	(C)	**79.**	(C)	**80.**	(D)	**81.**	(A)	**82.**	(D)	**83.**	(B)	**84.**	(B)
85.	(D)	**86.**	(B)	**87.**	(C)	**88.**	(D)	**89.**	(C)	**90.**	(A)	**91.**	(C)
92.	(B)	**93.**	(A)	**94.**	(C)	**95.**	(B)	**96.**	(C)	**97.**	(B)	**98.**	(B)
99.	(C)	**100.**	(B)										

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SOLUTIONS

1. P + Q = 105
P – Q = 45
P = 75, Q = 36
5 : 2

2. $\frac{1.44}{0.72} = 2$

3. $\frac{14}{15} \times \frac{1}{6} = \frac{7}{45}$

4. 7, + 14, + 21, + 42 = 84

5. $x = 70 \times \frac{3}{5} = 42$

$y = 70 \times \frac{2}{5} = 28$

6. $\frac{1}{9} + \frac{9}{2} = \frac{2+81}{18} = \frac{83}{18} = 4\frac{11}{18}$

11. A + B + C = 30
A + C = 18
B = 12

13. Area – 9 36
Side – 3 6
4 times

14. 9999999 – 10000 = 99, 89, 999

16. $90 \times \frac{30}{100} = 27$

17. x = 2, 5, 6 = 30
y = 4, 8 = 8

19. A = 2B, C = 3A
C = 4.8 kg
B = 800 g

20. $\frac{329+429}{6} = 126.33$

21. Vanilla = $\frac{4}{5} \times x = 48 \quad \Rightarrow x = 60$

Chocolate = $\frac{1}{5} \times 60 = 12$

24. 18 × 6 × 2 + 12 ÷ 3
18 – 12 + 4
6 + 4 = 10

25. $\sqrt{64} = 8$
P = 4 × 8 = 32

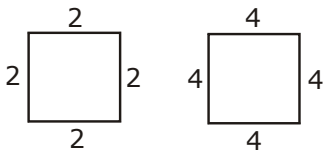
28. 976603

29. $\frac{33}{11} = 3, \frac{55}{11} = 5$

30. $\frac{1}{1000}$

31. $\frac{74.4}{20} \times 13 = 48.36\text{kg}$

38.



8 + 16 = 24

40. Q – 2P = $\frac{12}{25}$

$\frac{3}{4} - 2P = \frac{12}{25}$

$P = \frac{27}{200}$

P + Q = $\frac{27}{200} + \frac{3}{4} = \frac{177}{200}$

48. (C) Carbon dioxide

50. (A) Hammer used to claw a nail is 1st class lever.

51. (C) The space between the marbles fills up with water.

54. (B) It will burn more brightly.

56. (D) The moon is closer to the earth
So it is able to cover the sun during eclipse.

58. (C) Force P and Q are equal.

60. (C) Wheel and axle are used in sewing machine.

61. (D) To find out the amount of space the rock occupies.

64. (B) The weight of ship = The buoyant force of water.

66. (B) Fulcrum = the fixed point of lever.

67. (B) Friction force stops the body.

69. (B)

74. (A) Wool

78. (C) Gravitation force.

80. (D) For lunar eclipse earth come in between sun and moon.

82. (D) Air pressure is pushing the card board up.

84. (B) Constellation

86. (B) Load

88. (D) Petroleum

89. (C) Water, sunlight, carbon dioxide