



# eABHYAS ACADEMY®

## MEGA OLYMPIAD – SOLUTIONS



### MATHEMATICS - KEY

- 1) 3    2) 2    3) 4    4) 1    5) 1    6) 2    7) 1    8) 2    9) 4    10) 3  
 11) 2    12) 3    13) 2    14) 2    15) 3    16) 4    17) 3    18) 4    19) 4    20) 4  
 21) 1    22) 3    23) 3    24) 2    25) 3

### SCIENCE - KEY

- 26) 3    27) 3    28) 2    29) 3    30) 4    31) 2    32) 2    33) 2    34) 3    35) 1  
 36) 4    37) 3    38) 4    39) 3    40) 2    41) 2    42) 3    43) 2    44) 3    45) 1  
 46) 3    47) 3    48) 1    49) 1    50) 4

### REASONING - KEY

- 51) 3    52) 4    53) 1    54) 2    55) 1    56) 4    57) 4    58) 3    59) 2    60) 4  
 61) 1    62) 2    63) 3    64) 3    65) 2    66) 2    67) 3    68) 4    69) 2    70) 1  
 71) 1    72) 1    73) 1    74) 3    75) 3

### ENGLISH - KEY

- 76) 3    77) 4    78) 2    79) 3    80) 3    81) 2    82) 1    83) 2    84) 2    85) 2  
 86) 2    87) 3    88) 1    89) 1    90) 1    91) 1    92) 1    93) 2    94) 1    95) 1  
 96) 2    97) 2    98) 3    99) 1    100) 1

### MATHEMATICS - SOLUTIONS

- Option (3) is a cuboid.
- Decreasing Pattern
- 7 8 4 since 7 is in hundreds place. So, the value of 7 is 700.
- Given numbers are 531, 508, 599, 516

All numbers having 3 digits


Hundreds place number is 5.

When compare 10's place values 9 is big number followed by 3, 1, 0

Therefore ascending order: 508, 516, 531, 599.

5. 
$$\begin{array}{r} 331 \\ +123 \\ \hline 454 \end{array}$$

The expanded form of 454 is = 400 + 50 + 4.

6. 
$$\begin{array}{r} 408 \\ - 231 \\ \hline 177 \end{array}$$
7. One  $\triangle = 3$  sides  
 $3 \triangle = 3 \times 3 = 9$  sides.
8. Total ice - creams = 112  
 No. of girls = 7  
 No. of ice - creams each girl will get =  $112 \div 7 = 16$ .
9.  $90 \div 2 = 45$   
 $\text{☺} = 45$ .
10. i) A line segment has only one end point - False because a line segment has two end points.  
 ii) A line segment is the shortest distance between any two points - True.
11. Number of horizontal lines in the given time  is 8. Option 2 is correct.
12. 19, 24, 29, **34**, 39, **44**.
13. Numbers are written in sequence, option 2 is correct answer
14. 

H	T	O
2	6	4

 So, the number in the ten's place = 6. Correct option is 2.
15. The false statement is '156 has 1 ones' because 156 has 6 ones. So, correct option is 3.
16. Ascending order: **143, 212, 243, 314**
17. Given digits = 4, 6, 1  
 Decreasing order of digits = 6, 4, 1  
 The greatest number that can be formed = 641.
18. No. of herbs in the garden = 130  
 No. of shrubs in the garden = 164  
 No. of trees in the garden = 200  
 Total no. of plants in the garden =  $130 + 164 + 200 = 494$   
 Total No. of plants in the garden = 494
19. Largest 2 digit number = 99, Smallest 2 digit number = 10  
 Sum of the numbers =  $99 + 10 = 109$   
 $109 = 100 + 9$ ;                       $10 \text{ tens} + 9 \text{ ones} = 100 + 9 = 109$

$$\begin{array}{r}
 699 \\
 -512 \\
 \hline
 187
 \end{array}$$

20.  $699 - 512 = 187$
21. Total fireflies caught by Reena and Teena = 125  
 Number of fireflies caught by Reena = 109  
 Number of fireflies caught by Teena =  $125 - 109 = 16$

22.  $3 \times 3 = 9$

$$\begin{array}{r}
 221 \\
 \times 4 \\
 \hline
 884
 \end{array}$$

$$\begin{array}{r}
 1) 7(7 \\
 -7 \\
 \hline
 0
 \end{array}$$

25. Total no. of toffees = 54  
 No. of friends = 9  
 No. of toffees each friend get =  $54 \div 9 = 6$

### SCIENCE - SOLUTIONS

26. A. Roots – Absorb water from soil  
 B. Stem – Supports the plant  
 C. Leaves – Food production  
 D. Flower – Reproductive part of plant
27. Mint.
28. Tortoise and Crocodile.
29. i) Cow dung is used as construction material – True  
 ii) Yaks and mules are considered as beasts of burden – True.
30. Every human being has two tongues is an incorrect statement as every human has only one tongue.
31. We should lie down while reading.
32. We can feel the presence of air through wind or when it interacts with our body or objects, but we cannot see it.
33. People who eat meat are called non – vegeterians.
34. Both the given statements are true.
35. The stem carries water to the leaves.
36. All the given statements are true for climbers.  
 Climbers are plants with weak stems.

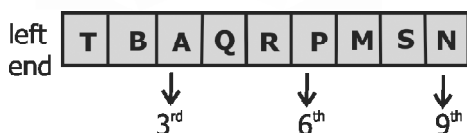
Climbers cannot stand erect on their own.

Climbers climb up on support.

37. The tree that gives us wood to make furniture is Teak.
38. All the given statements are true. i.e., Mango tree gives us fruits.  
Parts of neem tree are used in making medicines.  
Rose flowers are used to make perfumes.
39. Dog, Cat and Tiger are animals whereas Parrot is a bird. So, option 3 is the odd one.
40. Giraffe has a long neck.
41. Tiger – Carnivores. So option '2' is correct.
42. Deer and Zebra are wild animals eat only plants..
43. We can recognise unpleasant smell of garbage with the help of nose.
44. i) Skin protects us from heat, cold, dust and even germs: True  
ii) Skin maintains our body temperature: True
45. Both Ritesh and Anu are true.
46. i) Good posture is important because it creates less stress or pressure on our muscles and bones: True  
ii) Good posture helps our body to function properly: True
47. Living things cannot live without water.
48. The incorrect statement is air gives shape to things.
49. Apple prevent us from falling sick.
50. We should not eat while watching television or doing other things and we should not drink unclean water.

REASONING - SOLUTIONS

51. Every word is reversed. Option 3 is correct answer.
52. No of Digits are increasing . Therefore, option (4) is the correct answer.
53. It is a repeated pattern of shapes. Therefore, option (1) is the correct answer.
54. Bottle 'L' is third from the left, correct option is (2)  
F M L R S G O T Right end.
55. Correct option is (1), APN



56. Correct option is (4), T **B** **A** Q R P **M** S **N**

In the Ascending order of English Alphabet ABMN.

57. Option 4 is similar with given figure.
58. Option 3 is similar with given figure.
59. Option 2 is similar with given figure.
60. Option (4) will complete the figure.
61. Option (1) will complete the figure.
62. Option (2) will complete the figure.
63. Each number multiplied by two to get the next number.  
 $5 \times 2 = 10$   
 $10 \times 2 = 20$   
 $20 \times 2 = 40$   
 $40 \times 2 = 80$   
 $80 \times 2 = 160$  So option '3' is correct answer.
64. Repeated sequence of words. So option '3' is correct answer.
65. The fifth flower from right end is flower 'D'.
66. If all vowels are removed then C R C K T Fourth from right end is 'R'
67. Option 3 is exactly same as the question figure.
68. Option 4 is exactly same as the question figure.
69. Options '2' complete the given figure.
70. The other half of the figure is option (1).
71. It is a repeated pattern of figures. Therefore, option (1) is the correct answer.
72. P is 4<sup>th</sup> to the left of T, Correct option is (1)
73. Option 1 is similar with given figure.
74. Option (3) will complete the figure.
75. Option (3) will complete the figure.

ENGLISH - SOLUTIONS

76 - 100 CONCEPTUAL