



INTSO EDUCATION

MATHEMATICS TALENT SEARCH OLYMPIAD(MTSO) 2016 - 2017

STAGE - 1

TIME : 60 min.

CLASS : V

Max. Marks : 50

Instructions:

- ⇒ Fill the OMR sheet completely and carefully.
- ⇒ Each question carries one mark and has only one correct answer. No negative marks.
- ⇒ The question paper contains 50 questions to be answered in 60 minutes.

1. In a central library the total number of books are 4, 52, 840. The library donated 98, 125 books to NGO number of books are there in the library. []
1) 3, 54, 715 2) 2, 54, 615 3) 3, 44, 715 4) 2, 74, 515
2. What is the product of 3172 and 215 to the nearest thousands []
1) 6,40,0000 2) 6,40,000 3) 7,40,000 4) 5,40,000
3. Among the following is 1000 more than 99, 999 []
1) 1,00,999 2) 10,999 3) 109999 4) 1999
4. If a factory produced 58, 249 fans in the first year and 92, 142 in the second year, in the 3rd year the production was 1149 more than the second year, then the total production in 3 years is []
1) 2,40,600 2) 2.43,600 3) 2,43,682 4) 2,43,900
5. A large box contains 20 small boxes. Are in each small box there are 10 cricket balls number of cricket balls are there in all []
1) 30 2) 2000 3) 200 4) 300
6. Bhargavi earns ₹45320 in two months. How much will she earn in 12 months []
1) ₹2,71,920 2) ₹5,43,840 3) ₹6,43,940 4) ₹2,70,900
7. If the cost of dozen pencils is ₹144, then the cost of 90 such pencils is []
1) ₹1000 2) ₹1040 3) ₹1080 4) ₹1100
8. If 35 meters of wire cost is ₹8,400, then the cost of 12 meters of wire is []
1) ₹2800 2) ₹2820 3) ₹2840 4) ₹2880
9. The sum of the digits of a number $10^n - 1$ is 3798. the value of n is []
1) 431 2) 673 3) 422 4) 501
10. The number of numbers which are less than 1000 and end with only one zero is []
1) 90 2) 99 3) 91 4) 100
11. Among the following is an example of twin primes []
1) 11,17 2) 5,11 3) 3,0 4) 3, 5
12. Among the following are coprime numbers []
1) 2, 4 2) 16, 24 3) 28, 29 4) 5, 55
13. Among the following is divisible by 13 is []
1) 1111 2) 111111 3) 1111111 4) 11111111
14. Number of prime numbers are there between 25 and 50 []
1) 7 2) 8 3) 6 4) 11

15. The H.C.F of 54 and 48 is []
1) 4 2) 5 3) 8 4) 6
16. The maximum length of equal pieces that can be cut out from two ribbons of length 18 cm and 24cm respectively is []
1) 4cm 2) 6cm 3) 7cm 4) 8cm
17. A piece of cloth $\frac{5}{8}$ m in length is cut of from a cloth material of length $5\frac{1}{3}$ m. The length of the remaining cloth is []
1) $24\frac{17}{4}m$ 2) $23\frac{13}{4}m$ 3) $22\frac{11}{4}m$ 4) $23\frac{13}{3}m$
18. The greatest number that divides 63, 87 and 127 leaving a remainder of 3 in each case []
1) 5 2) 7 3) 8 4) 4
19. Three bells ring together at 8 am the first bell rings after every 10 seconds the second rings after every 20 seconds and the third rings after every 30 seconds when will the three bells ring together next time []
1) 8.10 am 2) 8.20 am 3) 9am 4) 8.01 am
20. If the L.C.M and H.C.F of two numbers is 1008 and 28 respectively and one of the number is 112, then the second number is []
1) 114 2) 116 3) 252 4) 144
21. The number of three digit numbers whose digits are even is []
1) 64 2) 75 3) 100 4) 125
22. How many two digit numbers that divides 109 with a remainder of 4 []
1) 2 2) 4 3) 3 4) 5
23. Among the follwoing is an equivalent fraction of $\frac{8}{7}$ is []
1) $\frac{16}{7}$ 2) $\frac{8}{14}$ 3) $\frac{40}{35}$ 4) $\frac{24}{14}$
24. Sum of $2\frac{1}{4}$ and $3\frac{2}{3}$ is []
1) $5\frac{11}{12}$ 2) $5\frac{12}{11}$ 3) $6\frac{11}{12}$ 4) $7\frac{12}{11}$
25. The product of $6\frac{7}{8}$, $6\frac{2}{11}$, $\frac{3}{10}$ is []
1) $\frac{51}{6}$ 2) $12\frac{3}{4}$ 3) $\frac{51}{7}$ 4) $11\frac{3}{4}$
26. $3\frac{1}{2}$ kg sweets were shared equally among 8 friends. the weight of sweets that each friend received is []
1) $\frac{7}{13}kg$ 2) $\frac{6}{11}kg$ 3) $\frac{7}{16}kg$ 4) $\frac{9}{16}kg$

27. Murali reads two fifth of 160 pages of his mathematics book. How many more pages he has to read to complete the book ? []
 1) 86 2) 76 3) 66 4) 96
28. The fractional form of 4.75 is []
 1) $4\frac{4}{3}$ 2) $4\frac{3}{4}$ 3) $2\frac{3}{4}$ 4) $3\frac{3}{4}$
29. The ascending order of the decimals 5 - 36, 2.045, 2.179, 5.450 is []
 1) 2.045, 2.179, 5.360, 5.450 2) 2.179, 2.045, 5.450, 5.360
 3) 2.179, 2. 045, 5.360, 5.450 4) 5.450, 5.360, 2.179, 2.045
30. Ramu bought a table fan for 900.50 and an emergency light for 800.60. How much did he spend in all []
 1) ₹1700.00 2) ₹1701.10 3) ₹1601.20 4) ₹1602.30
31. If a Mango cost ₹0.22, then the number of Mangoes can be bought for ₹11 []
 1) 1100 2) 1000 3) 100 4) 50
32. If a train is moving at a uniform speed of 46.8km per hour, then the distance covered by the train in 2 hours and 30 minutes []
 1) 117km 2) 118km 3) 97km 4) 87km
33. If the weights of 4 packets are 1.335kg, 4.875kg, 2.125kg and 3.222kg respectively, then the total weight of 4 packets is []
 1) 12.558kg 2) 11.557kg 3) 10.5kg 4) 13kg
34. In a garden $\frac{1}{4}$ are Banana trees $\frac{1}{10}$ are Guava trees and rest are Mango trees. If Mango trees are 65 in number, then the total number of trees in the garden is []
 1) 80 2) 100 3) 120 4) 140
35. There are 40 students in a class $\frac{9}{10}$ th of the students were present in a day, the number of absentees on that day is []
 1) 36 2) 24 3) 4 4) 6
36. Number of seconds are equal to $10\frac{1}{2}$ hours []
 1) 36000 seconds 2) 36,300 seconds 3) 30,600 seconds 4) 33,600 seconds
37. The sum of XXXVIII and XXV is []
 1) 53 2) 73 3) 63 4) 45
38. The Hindu Arabic numeral value of MCMXXXI []
 1) 1831 2) 2131 3) 1931 4) 1231
39. If a and b are square numbers. the L.C.M of a and 140 is 560 and the L.C.M of b and 140 is 700. Then the L.C.M of a and b is []
 1) 400 2) 1600 3) 2500 4) 4900
40. How many 4 digit numbers with middle digits 97 are divisible by 45. []
 1) 0 2) 2 3) 4 4) 1

41. If the height of a tower A is 75m 65cm and the height of tower B is 66M 50cm , then the difference between the heights of both the towers is []
1) 10m 15cm 2) 9m 45 cm 3) 9m 15 cm 4) 11m 15cm
42. How many millilitres are equal to 3.756kl. []
1) 3756000 ml 2) 37560000 ml 3) 37560ml 4) 3756ml
43. The first half of a movie was 1 hour 25 minutes long, followed by a 15 minutes interval. if teh second half was 1 hour 40 minutes long, then how much time a person spends in watching the movie. []
1) 2 hours 20 minutes 2) 4 hours 30 minutes 3) 3 hours 20 minutes 4) 3 hours 30 minutes
44. Ram and Shyam decide to divide 20 marbles in the ratio 2 : 3 between themselves. Number of marbles will get by Ram is []
1) 12 2) 8 3) 10 4) 6
45. The line of symmetry of an angle with equal arms is []
1) angle bisector 2) perpendicular bisector
3) median of arms 4) altitide to the arms
46. The number of lines of symmetry of a rhombus has []
1) 1 2) 2 3) 4 4) 6
47. Among the following capital letters of English alphabet have no linear symmetry []
1) B 2) D 3) C 4) H
48. You have 5 pieces of 6cm rods and 4 pieces of 7cm rods using some or all of them which one of the following lengths you cannot measure []
1) 30 2) 29 3) 31 4) 33
49. The number of primes less than 100 which have 7 as the unit digit is []
1) 6 2) 7 3) 8 4) 9
50. The number of lines of symmetry of a circle has []
1) 10 2) 5 3) 6 4) infinite

