Duration : 60 min.
Class : 6th

Maximum Marks : 180
Subject : MATHEMATICS

International Talent Search Examination - 2022-23

अंतर्राष्ट्रीय प्रतिभा खोज परीक्षा - २०२२-२३

Organized by

Savitri Skill Development Institute, Training Partner with
Ministry of Micro Small & Medium Enterprises (MSME), Govt. of India.

TEST BOOKLET

Name : .....

Class : ..... School: .....

Father's Name : ..... Father's Occupation : .....

Mother's Name : ..... Mother's Occupation : .....

Categories : Gen ☐ OBC ☐ SC ☐ ST ☐

Correspondence Address :.....

Date of Birth : ☐☐ ☐☐ ☐☐☐☐

Father's Contact No : ☐☐☐☐☐☐☐☐☐☐

Home/Mother's Contact No. : ☐☐☐☐☐☐☐☐☐☐

WhatsApp No. : ☐☐☐☐☐☐☐☐☐☐

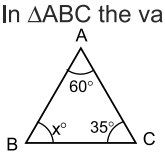
Basic Instructions:

i. Ensure that your personal data has been entered correctly.
ii. Immediately after opening the test booklet verify that all the pages are printed properly and are in order. If there is a problem with your test booklet, immediately inform the invigilator. You will provided with the replacement.
iii. All questions in are compulsory.
iv. For every correct answer you will be awarded with 4 marks and for all incorrect answer 1 mark will be deducted.
v. Directions for answering the questions are given. Read those directions carefully and answer the question by circling the bubble in the OMR Sheet Provided to you. Test booklet/OMR Sheet will be submitted at the end of the examination.
vi. Follow the instructions given by the invigilator. Students found violating the instructions will be disqualified.
vii. Rough work can be done separately or on the Question paper.
viii. Please fill the bubbles in OMR sheet with Blue or Black pen only.
ix. Do not tear the question paper or OMR sheet else you will be disqualified in the examination.

CLASS-6 MATHEMATICS

1. 21 hundred 6 tens 5 ones is equal to
(A) 2160 (B) 2156 (C) 2165 (D) 2150

2. In ΔABC the value of x° is



(A) 75° (B) 95° (C) 80° (D) 85°

3. The missing term in $81 \div \frac{1}{3} = ?$
(A) 27 (B) 9 (C) 243 (D) 342

4. Vertical line in the graph is called
(A) a-axis (B) b-axis (C) x-axis (D) y-axis

5. $\frac{7}{10} + \frac{5}{100} + \frac{1}{1000} = ?$
(A) 0.751 (B) 0.517 (C) 0.715 (D) 0.157

6. 0.850 + 0.115 + 0.821 is equal to
(A) 1.886 (B) 1.786 (C) 1.586 (D) 1.186

7. 1.25 x 125 is equal to
(A) 15625 (B) 15.625 (C) 156.25 (D) 1562.5

8. 10% of 10% of 2500 is
(A) 100 (B) 25 (C) 75 (D) 50

9. How many pieces of $1\frac{1}{2}$ m rope have to be joined to make 1278 m rope?
(A) 851 (B) 852 (C) 751 (D) 752

10. The value of $\left(1+\frac{1}{3}\right)\left(1+\frac{1}{4}\right)\left(1+\frac{1}{5}\right)$ is equal to
(A) 0 (B) 1 (C) 2 (D) 3

11. The ratio of the shaded region to the total area is

(A) $\frac{1}{9}$ (B) $\frac{1}{36}$
(C) $\frac{1}{27}$ (D) $\frac{1}{48}$

12. Twelve times the number is 648. The number is
(A) 48 (B) 54 (C) 64 (D) 82

13. x% of 11 = 189, x is
(A) 1717 (B) 1718 (C) 1720 (D) 1710

14. Standard form of $\frac{323}{399}$ is
(A) $\frac{21}{23}$ (B) $\frac{21}{23}$ (C) $\frac{21}{23}$ (D) $\frac{21}{23}$

15. The next term is $\frac{3b^2}{c}, \frac{9b^2}{c^3}, \frac{27b^2}{c^5}, \frac{81b^2}{c^7}, ?$
(A) $\frac{243b^3}{c^{11}}$ (B) $\frac{243b^2}{c^{11}}$ (C) $\frac{243b^3}{c^7}$ (D) $\frac{243b^2}{c^9}$

16. Which one is an irrational number?
(A) $2\sqrt{9}$ (B) $4\sqrt{4}$ (C) $7\sqrt{81}$ (D) $4\sqrt{3}$

17. Which of the following is correct?
(A) $\frac{5}{7} < \frac{7}{8} < \frac{9}{11}$ (B) $\frac{5}{7} < \frac{9}{11} < \frac{7}{8}$ (C) $\frac{7}{8} < \frac{5}{7} < \frac{9}{11}$ (D) $\frac{9}{11} < \frac{7}{8} < \frac{5}{7}$

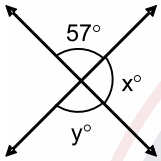
18. The value of $(100 + 99)^{-1} (100 - 99)$ is
(A) 199 (B) $\frac{1}{199}$ (C) 1 (D) $\frac{1}{299}$

19. A triangle always has
(A) exactly one acute angle
(B) exactly two acute angles
(C) atleast two acute angles
(D) exactly three acute angles

20. 8.45 ÷ 1.2 is equal to
(A) 10.04 (B) 9.04 (C) 7.04 (D) 12.04

21. A man buys one dozen eggs at Rs. 156 and sells 10 eggs at Rs. 156. The values of buying price and selling price are Rs.
(A) 15.6, 13 (B) 13, 15.6 (C) 13.6, 15 (D) 15, 13.6

22. In the given figure, the values of x and y are



(A) 123, 57 (B) 57, 123 (C) 113, 67 (D) 67, 113

23. Roman number ML + CC is
(A) 1350 (B) 1050 (C) 1250 (D) 1005

24. Which of the following is a rational number?
(A) π (B) $4\sqrt{9}$ (C) $\sqrt{3}$ (D) $9\sqrt{5}$

25. $\frac{4}{5}$ of the class is present. If 84 are present. Total strength of class is
(A) 110 (B) 115 (C) 95 (D) 105

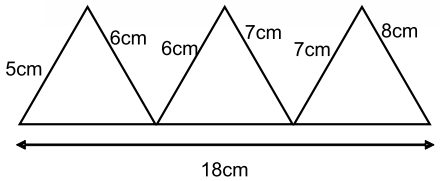
26. Sum of four consecutive integers is 390. The greatest among them is
(A) 96 (B) 97 (C) 98 (D) 99

27. If H.C.F. and L.C.M. of two numbers are 3 and 120 respectively. If one number is 24 , then the other is
(A) 18 (B) 12 (C) 15 (D) 21

28. $\left[\{(12+3)x\ 5\} \div 11\right]$ is equal to
(A) 7.818 (B) 8.818 (C) 9.818 (D) 6.818

29. If a car travels 1000 km with 24 litre petrol, then the distance it will travel with 48.4 litre petrol
(A) 2000 km (B) 2016.67 km (C) 2018.61 km (D) 2020.67 km

30. In the given figure, the perimeter is



(A) 51 cm (B) 57 cm (C) 61 cm (D) 67 cm

31. Sam bought 215 bunches of bananas. If there were 302 bananas in each bunch, then how many bananas did Sam buy in total ?
(A) 54930 (B) 64930 (C) 65930 (D) 64830

32. If 45 - [28 - {36 - (13 + x)}] = 60, then x =
(A) – 19 (B) 19 (C) 20 (D) –20

33. If a number 8P97546 is divisible by 3 then what is the value of P ?
(A) 4 (B) 5 (C) 6 (D) 7

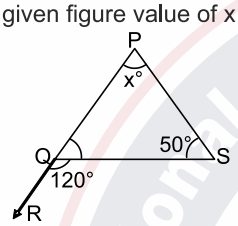
34. What is the value of (39) + (–46) + (–10) + (79) ?
(A) 62 (B) -62 (C) 76 (D) -76

35. 8 - [28 ÷ {34 - (36 - 18 ÷ 9 x 8)}]=?
(A) 6 (B) $6\frac{4}{9}$ (C) 25 (D) None of these

36. Roman numeral for the greatest three digit number is
(A) IXIXIX (B) CMXCIX (C) CMIXIX (D) CMIIC

37. What smallest 5 digit number can be made using digits 5, 4, 0 and 1?
(A) 01045 (B) 10045 (C) 11045 (D) 10145

38. In the given figure value of x is



(A) 60º (B) 70º (C) 80º (D) 55º

39. Hexagon is a polygon which consists of
(A) 7 sides, 7 angles and 7 vertices (B) 6 sides, 6 angles and 6 vertices
(C) 8 sides, 8 angles and 8 vertices (D) 4 sides, 4 angles and 4 vertices

40. If an angle is equal to five times of its complementary then the measure of the angle is
(A) 75° (B) 150° (C) 60° (D) 90°

41. If $\angle AOB = 60°$, then value of $\frac{4}{5}\angle AOB$ is
(A) 84° (B) 72° (C) 48° (D) 60°

42. Himanshu's scale has been broken out so he starts measuring a line segment from 3.8 cm to 10.3 cm. What is the length of the line segment?
(A) 8.3 cm (B) 14.1 cm (C) 6.8 cm (D) 6.5 cm

43. Which type of figure it is → 

(A) Simple figure (B) Closed figure (C) Both (A) and (B) (D) None of these

44. If perimeter of an equilateral triangle is 21 cm, then length of its side is
(A) 6 cm (B) 7 cm (C) 3 cm (D) 12 cm

45. If $\angle A$ of a triangle ABC measure 51° and $\angle C = 2\angle B$ then find measure of $\angle C$.
(A) 43° (B) 86° (C) 54° (D) None of these