Duration : 60 min.Maximum Marks : 180Class : 6thSubject : MATHEMATICS



International Talent Search Examination - 2023-24

अंतर्राष्ट्रीय प्रतिभा खोज परीक्षा - २०२३-२४



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 :	Fathe	r's Occupation :				
Mother's Name :	Mothe	er's Occupation :				
Categories : Gen	ОВС	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.	Smallest even prime number (A) 4	ris (B) 9	(C)	2	(D) 8
2.	The value of digit A in 8928A (A) 5	if it is divisible by 10 is equa (B) 9	al to (C)	0	(D) 1
3.	(17849 x 82) + (18 x 17849) (A) 1784982	= (B) 1780049	(C)	9007849	(D) 1784900
4.	Roman numeral for 769 is (A) DCCXLIX	(B) DXCVI	(C)	DCCLXIX	(D) DCCCL
5.	Estimate the sum (64 + 79) t (A) 140	o the nearest ten. (B) 100	(C)	120	(D) 160
6.	A number divisible by 63 is a (A) divisible by 3 and 4	lso (B) divisible by 3 and 5	(C)	divisible by 3 and 7	(D) divisible by 9 and 12
7.	Largest even prime number (A) 2	is (B) 1024	(C)	2 x 10 ²⁴	(D) cannot be determined
8.	L.C.M and H.C.F of 63 and 3 (A) 252, 3	66 (B) 252, 2	(C)	251, 2	(D) 252,9
9.	 Choose correct statement: (A) every factor of a number is divisor of its multiple (B) every multiple of a number is divisor of its factor (C) H.C.F of two numbers is not divisor of multiples of these numbers (D) L.C.M of two numbers is factor of number 				
10.	. HCF of 1007 and 1273 is (A) 19	(B) 21	(C)	23	(D) None of these
11.	Predecessor of 0 as a whole (A) -1	numberis (B) +1	(C)	itself 0	(D) doesn't exist
12.	The LCM of 100 and 101 is (A) 10100	(B) 10001	(C)	10101	(D) none of these
13.	The HCF of 100 and 101 is (A) 10100	(B) 1	(C)	37	(D)7
14. Quotient =					
	$(A) \ \frac{ \ \text{Divisor} - \text{Remainder} \ }{ \ \text{Dividend} }$		(B)	Dividend – Remainde Divisor	er_
	(C) Dividend + Remainder Divisor		(D)	None of these	
15.	Let a be an integer then choo (A) (a + 1) is called the pred (C) (a + 1) is called the succ	ecessor of a		(a – 1) is called the su Only B	occessor of a
16.	. Which of the following is a tru (A) -7>-4 (C) -7 and -4 are non comp			-7 < -4 None of these	

17. Successor of –18 is (A) –19	(B) 17	(C) -17	(D) 19	
18. On subtracting 8 from –4, we (A) 4	e get (B) 12	(C) -12	(D) None of these	
19. (-9) x (6) + (-9) x 4 = ? (A) -90	(B) 90	(C) -18	(D) 18	
20. 0 ÷ (-70) = ? (A) -70	(B) 0	(C) Not defined	(D) None of these	
21. The product of $(a - b) (a^2 + a (A) a^3 + b^3)$	b + b²) is equal to (B) a³-b³	(C) 0	(D) none of these	
22. The cost of a register is x anthen the algebraic expression (A) x² + x²y				
23. Given x is any variable such (A) its always true	that $3x > x^2$. Then (B) its always false	(C) true for x = a	(D) true for x = 2	
24. If quotient = $3x^2 - 2x + 1$, rem (A) $3x^3 - 4x^2 + x - 3$	nainder = $2x-5$ and divisor (B) $3x^3-4x^2-x+3$	x = x + 2, then the dividend is (C) $3x^3 + 4x^2 - x + 3$	(D) $3x^3 + 4x^2 - x - 3$	
25. $(9p-5q)^2 + 180pq$ is equival (A) $(5p+9q)^2$	lent to (B) (5p-9q)²	(C) (9p+5q) ²	(D) (9p-5q) ²	
26. The edges of two cubes are (A) 8:1	2 cm and 4 cm. Find the rate (B) 1:8	tio of the volume of the two (C) 1:9	cubes. (D) 9:1	
27. The length of the longest dia	agonal of the cube with side	e 'a' is		
(A) a√2	(B) a√3	(C) a√5	(D) a√8	
28. Find the volume of a cylinde (A) 1540 cm ³	er whose the radius of the bar (B) 1500 cm³	ase is 7 cm and height is 10 (C) 1560 cm³	cm. (D) None of these	
29. The area of the base of a rig (A) 450 sq. cm	ht circular cone is 154 sq. c (B) 550 sq. cm	cm and its height is 24 cm, th (C) 650 sq. cm	nen its curved surface area is (D) 750 sq. cm	
30. If the total surface area of a (A) 35 metres	cube is 3750 square metre (B) 25 metres	s, then the length of the edg (C) 15 metres	ge is (D) 5 metres	
31. If $\frac{547.527}{0.0082} = x$, then the val	ue of $\frac{547527}{82}$ is			
$(A) \frac{x}{10}$	(B) 10x	(C) 100x	(D) none of these	
$32.\ 2\frac{1}{3} + 4\frac{1}{2} = ?$				
O	(B) $6\frac{1}{5}$	(C) $6\frac{2}{5}$	(D) $6\frac{5}{6}$	
33. Sum of $2\frac{37}{8}$, $2\frac{5}{16}$ and $2\frac{7}{2}$	/ 4 is			
24	(B) $6\frac{47}{48}$	(C) $6\frac{23}{24}$	(D) $6\frac{17}{48}$	
34. Shikha ate $\frac{2}{5}$ of a cake and Anandi ate $\frac{1}{4}$ fo the same cake. What part of the cake was left?				
(A) $\frac{7}{10}$	(B) $\frac{13}{20}$	(C) $\frac{7}{20}$	(D) $\frac{11}{20}$	

1 · -	nore than the sum of $1\frac{17}{6}$ and (B) $6\frac{9}{20}$	and $2\frac{7}{15}$? (C) $2\frac{11}{15}$	(D) 6 21	
(A) $6\frac{1}{20}$	$(D) 6\overline{20}$	$(0) 2{20}$	(D) $6{20}$	
36. The total weight of a bag containing 13 kg 750 g of potatoes and 8 kg 80 g of tomatoes is 22 kg 200 g. How much is the weight of the empty bag?				
(A) 370 g	(B) 160 g	(C) 100 g	(D) none of these	

(D) none of these 37. If 1.5x = 0.04y, then the value of $\frac{y-x}{y+x}$ is

(C) $\frac{7.3}{77}$

(C) 5

(D) none of these

(D) 6

- (B) $\frac{73}{77}$ (A) $\frac{730}{77}$
- 38. The value of $\left[35.7 \left[3 + \frac{1}{3 + \frac{1}{3}} \right] \left[2 + \frac{1}{2 + \frac{1}{2}} \right] \right]$ is (A) 30 (B) 34.8 (C) 36.6 (D) 41.4
- 39. Simplify: $\frac{0.2 \times 0.2 + 0.2 \times 0.02}{0.02 \times 0.02}$

(A) 1

- (B) 0.4(A) 0.004 (D) 2 40. On simplification of $\frac{(2.644)^2 - (2.356)^2}{(2.644)^2}$ (B) 4
- 41. The floor area of a room is 72m² and its length is 9m 60cm. The breadth of the room is (A) 6m 60cm (B) 7m 50cm (D) none of these (C) 8m
- 42. If the radius of a circle is doubled, then the diameter becomes (A) 2 times (B) 3 times (C) 4 times (D) remains the same
- 43. Each of the equal sides of an isosceles triangle is 4.7 cm and its third side is 5.6 cm. The perimeter of the triangle (A) 10.3 cm (B) 20.6 cm (C) 15.9 cm (D) 15 cm
- 44. Find the area of a square of side 1.6 metres. (A) 2.56 sq. m (B) 2.42 sq. m (C) 1.48 sq. m (D) 2.38 sq. m
- 45. The length of a rectangle is 1.6 m and its breadth is 75 cm. Then, its area is (A) 1200 sq. cm (B) 12000 sq. cm (C) 6000 sq. cm (D) 9000 sq. cm