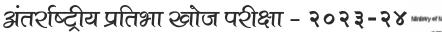
Duration : 60 min.

Class : 7th

Maximum Marks : 180
Subject : MATHEMATICS



International Talent Search Examination - 2023-24





Organized by

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

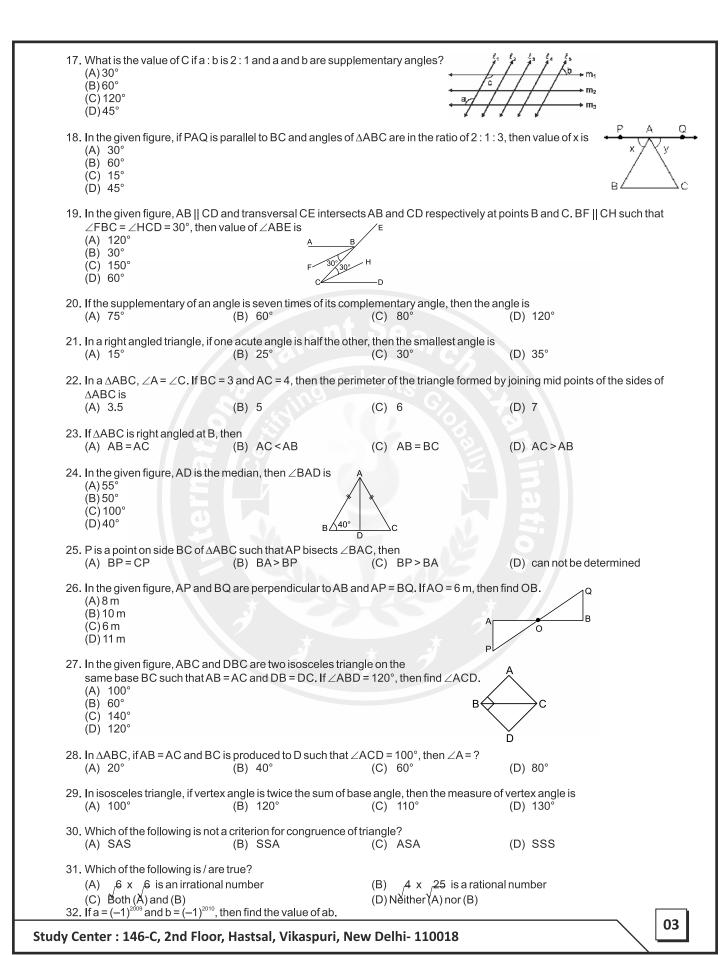
Name :					
Class:	School:	vea			
Father's Name :		Father's C	Occupation :		
Mother's Name :	<i>I</i>	Mother's	Occupation :		
Categories : Gen	ОВС	S	c 🗀	ST	
Correspondence Address :		• • • • • • • • • • • • • • • • • • • •			
Date of Birth :					
Father's Contact No :					
Home/Mother's Contact No. :					
WhatsApp No. :			3		

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.
- 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-7 MATHEMATICS

1.	The product of two integers is -(A) 10	–144 and sum of the integers (B) –10	s is –7. Find the smallest nui (C) –16	mber. (D) 16		
2.	Product of multiplicative invers (A) 1	se and additive inverse of 5 is (B) -1	s (C) -5	(D) 5		
3.	Walking $\frac{5}{6}$ th of its usual spee	ed, a train is 10 minutes late.	. Find the usual time to cover	r the journey.		
	(A) 60 minutes	(B) 50 minutes	(C) 40 minutes	(D) 30 minutes		
4.	Which of the following integers (A) 176	s has most number of divisor (B) 182	rs? (C) 99	(D) 101		
5.	The smallest number which m (A) 69	ust be added to 1780 to mak (B) 156	te it a perfect square is (C) 149	(D) 59		
6.	What decimal of an hour is a set (A) 0.0025	econd? (B) 0.0256	(C) 0.00027	(D) 0.000126		
7.	A piano teacher has $4\frac{1}{2}$ hour	rs available to teach in a nigl	ht. Each lesson will last to 1	$\frac{1}{2}$ hours. How many lessons can		
	the teacher schedule in a night					
	(A) $2\frac{1}{2}$	(B) 2	(C) 4	(D) 3		
8.	8. Find the sum of $\frac{1}{2} + \frac{1}{6} + \frac{1}{12} + \frac{1}{20} + \frac{1}{30} + \frac{1}{42} + \frac{1}{56} + \frac{1}{72} + \frac{1}{90} + \frac{1}{110} + \frac{1}{132}$.					
	(A) 718	(B) $\frac{11}{12}$	(C) $\frac{15}{16}$	(D) $\frac{17}{18}$		
9.	$\frac{0.1 + 0.75}{2.5 + 0.05} \div \left(0.125 + \frac{1}{4.8}\right)$					
	(A) 5	(B) 4	(C) 3	(D) 1		
10	$\cdot \frac{\left(0.55\right)^2 + \left(0.07\right)^2 + \left(0.027\right)^2}{\left(0.055\right)^2 + \left(0.007\right)^2 + \left(0.0027\right)^2}$	$\frac{2}{7)^2} = ?$				
	(A) 100	(B) 10	(C) 1000	(D) 1		
11. One seventh of a number is same as increased of one eight of that number by 3. Find the number. (A) 165 (B) 168 (C) 158 (D) 169						
12.	. Ram's grandfather's age is 65 (A) 15	and 23 more than three time (B) 13	es more than Ram's age. Fir (C) 14	nd Ram's age. (D) 12		
13.	In a class, there are total 90 st the commerce students. Then (A) 2:1:6			ents & science students are thrice ectively are (D) 1:2:6		
14.	Some people go for picnic at a of people go to hill and remaini (A) 90			people stay at camp while one fifth ber of people. (D) 110		
15.	. A number has three digits. The than original number. What is t		the hundredth digit. If numb	per is reversed, then it is 396 more (D) 386		
16	, ,	,	. ,	, ,		
16.	. In the given figure, $l_1 \parallel l_2$ and tr and angle BNM respectively s (A) 60° (B) 120° (C) 30° (D) 50°			y. MO and NO bisects angle AMN		



/ A)	
IA	

33.
$$\sqrt[3]{\frac{125}{216}} - \sqrt{\frac{25}{36}} = .$$
 (A) 5

(C) 0

(D) 1

34. The following are the steps involved in finding the positive value of x from the equation $x^2 = 12.96$. Arrange them in sequential order from the first to the last.

(a)
$$x^2 = (36)^2$$

(b) :
$$X = 3.6$$

(C)
$$x^2 = 12.96 = 1296$$

100

(d)
$$x = 36$$

(D)
$$cdb\overline{40}$$

35. If
$$p = (-1)^{205}$$
 and $q = (-1)^{202}$, then $p + q$ is (A) $(-1)^{407}$ (B) $(-1)^4$

A)
$$(-1)^{407}$$
 (B) $(-1)^{407}$

36. The value of
$$(a-1)(a^2-2a+1)$$
 is
 $(A) (a-1)^2$ (B)

$$(a-1)^2$$
 (B) $(a-1)^3$

(C)
$$a^2 - 1$$

38. If
$$x + \frac{1}{1} = 4$$
, then the value of $4x^2 + \frac{1}{1}$ is

39. If
$$2x + \underline{1} = 6$$
, then the value of $9x^2 + \underline{1}$ is

(B)
$$76.2$$

(A)
$$3^{6n^2}6^{2a}2^{2b}$$

41.
$$2^x = 3^y = 6^{-z}$$
, then $\frac{1}{x} + \frac{1}{y} + \frac{1}{z}$ is equal to (B) 0

$$\frac{\overline{y}}{z}$$
 (B)

42.
$$2^{x+y} = 128$$
 and $4^{x-y} = 16$, and then find

(B)
$$\frac{\overline{y}}{5}$$

(D)
$$\frac{3}{5}$$

43. If
$$a = \overline{\overset{9}{2}}^{-2} - 2^{-3}$$
), $b = (2^{-3} - 2^{-4})$ and $c = (\overline{\overset{9}{2}}^{4} - 2^{-2})$, then the value of $a^3 + \overline{\overset{1}{b}}{}^3 + c^3$ is

(A)
$$-\frac{9}{1024}$$

(B)
$$-\frac{9}{2048}$$

44. Simplify:
$$\frac{\left(p+\frac{1}{q}\right)^{(p-q)}\left(p-\frac{1}{q}\right)^{p+q}}{\left(q+\frac{1}{p}\right)^{(p-q)}\left(q-\frac{1}{p}\right)^{(p+q)}}$$

$$(A) \left(\frac{p}{q}\right)^2$$

(B)
$$\left(\frac{q}{p}\right)^{2q}$$

$$\binom{C}{q} \left(\frac{p}{q}\right)^{p}$$

$$(D) \left(\frac{q}{p}\right)^{c}$$

45.
$$\left\lceil \frac{\left(a^0+b^0\right)\!\left(a^0-b^0\right)}{a^2-b^2}\right\rceil^{0^{45}} \text{ (where a } 0, \text{ and b } 0) \text{ is } \neq 0$$

(A) 0

- (B) 1
- (C) -1
- (D) Not defined