NISA - NATIONAL ANALYTICAL APTITUDE TEST 2022

21st Century Skills Test for Students to be Future ready | Initiative by NISA (National Independent Schools Alliance)

DO NOT OPEN THIS BOOKLET UNTIL ASKED TO DO SO

Total Questions: 40

Time: 60 Minutes

Instructions for the Candidate

(a) You have 40 multiple-choice questions in this Test Paper. Attempt each question and write answers that are most correct according to you. There is only one right answer for each question.

(b) Manage your time properly. Remember that, on average, you can spend upto 1.5 minute on each question.

(c) Start the test only when your Teacher / Invigilator gives you the permission to start and on completion of the test, please wait for her / his instruction before returning the OMR Sheet.

(d) Mark all your answers on the OMR sheet provided

(e) While marking on the OMR sheet, ensure that you are marking the appropriate option with a dark coloured pencil. The correct method is shown below:

Correct Method
(A) ● (C) (D)

(f) If you need to change an answer that you have already marked – erase the first marking completely, before marking the new answer. Answers with multiple markings, different markings or incomplete markings will be scored as wrong.

Affordable Schooling

NISA
National Independent Schools Alliance

Commendable Learning

We Are The Voice of 1 Lakh Budget Private Schools

65 State Associations | 20 Million Students | In 26 States of India

STUDENT NAME (IN CAPITAL LETTERS)

SCHOOL NAME (IN CAPITAL LETTERS)

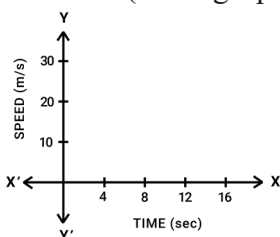**STUDENT ID (IN CAPITAL LETTERS)**

CONTACT

PART - I
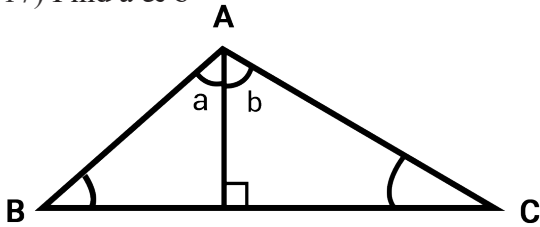## SECTION 1 – MATH ABILITY

1) The value of
a. 2   b. 2   c. 4+(2/9)   d. 4+(2/3)

2) The lower bound of the following calculation given that each number is given to nearest whole number 34 x 65
a. 2160.75   b. 2210   c. 2194.25   d. 2177.5

3) Evaluate (8-3) x (-6) / 5 +7
a. 37/5   b. 1   c. 13   d. 18/5

4) The length of the rail track is 9 m long. How many complete lengths will be needed to lay 0.990 km of track.
a. 9   b. 112   c. 110   d. 11

5) There are 200 birds in a flock of which 120 of them are female. What Percentage of the flock are male?
a. 60%   b. 20%   c. 40%   d. 50%

6) Express the first quantity as percentage 0f second 600 kg, 3 tonnes.
a. 50%   b. 20%   c. 2%   d. 5%

7) A photograph is enlarged in the ratio of 3:2, Its original size is 12cm wide and 8 cm tall. The new dimensions of the photo are:
a. 48 x 24   b. 4 x 6   c. 21 x 3   d. 18 x 12

8) Find the value of (x) in this calculation: $2^{(2x+2)}=128$.
a. 5/2   b. ½   c. 5/3   d. 1/5

9) A visitor from United States receives INR 78 for each dollar. How many US dollars are needed to get Rs. 10, 000?
a. 0.0078   b. 0.78   c. 12.821   d. 128.21

10) On selling a chair for Rs. 680, a man loses 15%. Find its cost price
a. 860   b. 920   c. 800   d. 960

11) A toy house is in the shape of a pentagon, each side measuring 1.4cm. Calculate its perimeter?
a. 7.0cm   b. 8.4cm   c. 4.0 cm   d. 5.6cm

12) If 9 is the result of subtracting 12 from 7 times a number. Find the number.
a. -3/7   b. 7   c. 3   d. +3/7

13) The angle A of the triangle is equal to sum of the other two angles. Find angle A.
a. 180^0 b. 45^0 c. 50^0 d. 90^0

14) Solve the following equation : x – 2= 6 / x-3.
a. 0,5   b. 2,3   c. -2,-3   d. 0.-5

15) A stone dropped off the edge of a cliff of height 125 m takes 5 seconds to reach the ground. Calculate the constant of the variation.
a. 25   b. 625   c. 125   d. 5

16) The graph below is a speed time graph of a car at constant acceleration from rest. What is the acceleration at 8 seconds (draw graph).

a. 2.5 m/s^2 b. 25 m/s^2 c. 9.0 m/s^2 d. 12 m/s^2

17) Find a & b

a. a=45,b=45   b. a=45, b=30   c. a=30, b=30   d. a=30, b=45

18) Isometric graph paper has small _____?

a. Squares   b. lines   c. Triangles   d. Dots

19) The sum of two rational numbers is always

a. Integer   b. Whole number   c. Rational   d. None

20) The cost Rs. x of printing x newspaper is given by the formula $x = 1.5+0.05n$. How many newspapers can be printed for Rs.25?

a. 470   b. 466   c.530   d.470

SECTION 2 – LOGICAL REASONING

21)	Which of the given words would appear first in a dictionary?	
	A) Armadillo	C) Albatross
	B) Arctic Fox	D) Aardvark
22)	Arrange the following words in the order in which they would appear in a dictionary: 1. Assuage, 2. Ask, 3. Armour, 4. Address?	
	A) 1,2,3,4	C) 3,2,1,4
	B) 2,1,3,4	D) 4,3,2,1
23)	Arrange the following words in the reverse of the order in which they would appear in a dictionary: 1. Fall, 2. Glow, 3. Eye, 4. Day?	
	A) 1,2,3,4	C) 3,2,1,4
	B) 2,1,3,4	D) 4,3,2,1
24)	Arrange the following words in a meaningful order: 1. Seed, 2. Fruit, 3. Flower, 4. Plant?	
	A) 1,4,3,2	C) 3,2,1,4
	B) 2,1,3,4	D) 4,3,2,1
25)	Which of these following words cannot be formed with the letters in the word "TRUSTWORTHY"?	
	A) WORTH	C) SWORE
	B) RUST	D) ROT
26)	Which of these following words cannot be formed with the letters in the word "HONESTY"?	
	A) HONEY	C) TOY
	B) HONE	D) HASTY
27)	Which of these following words cannot be formed with the letters in the word "HASTENED"	
	A) STENT	C) STAND
	B) SENT	D) EAST
28)	Which of these following words can be formed with the letters in the word "EARMARKING"?	
	A) MARKED	C) ROME
	B) MARE	D) DAME

29)	What is the number of meaningful words that can be made from the letters IMET, using all the letters (each letter can be used only once per word)?	
	A) 4	C) 3
	B) 2	D) 1
30)	What is the number of meaningful words that can be made from the letters AMED, using all the letters (each letter can be used only once per word)??	
	A) 4	C) 3
	B) 2	D) 1
31)	If day before yesterday was Friday, then what would day after tomorrow be?	
	A) Monday	C) Tuesday
	B) Friday	D) Sunday
32)	If A's birthday is falls on a Wednesday and Christmas falls on the same day the following week, on which day does Boxing Day fall?	
	A) Wednesday	C) Thursday
	B) Tuesday	D) Friday
33)	If A was born in 2013 on a Friday, how old would be he be the next time he celebrates his birthday on a Friday?	
	A) 6 years	C) 5 years
	B) 7 years	D) 8 years
34)	If the 5th of August 2022 was a Friday on which day would Independence Day 2022 fall?	
	A) Monday	C) Friday
	B) Tuesday	D) Wednesday
35)	The first Wednesday of a month is the 3rd, on what day would the 15th fall?	
	A) Tuesday	C) Sunday
	B) Monday	D) Wednesday
36)	In a row of trees, one tree is the 10th from either end of the row. How many trees are there in the row?	
	A) 17	C) 20
	B) 18	D) 19
37)	In a class A is ranked 20th from the top and B ranks 25th from below, how many students are there in the class?	
	A) 47	C) 53
	B) 45	D) Cannot be Determined
38)	In a row of people, if A who is 5th from the right changes position with B who is 10th from the left, A becomes 16th from the right. How many people are there in total??	
	A) 30	C) 11
	B) 21	D) Cannot be Determined
39)	In a row of people, A is 10th from left end and 12th from the right end. How many people are there in the row?	
	A) 21	C) 22
	B) 12	D) 10

40)	If B is 25th in a queue when starting from either end, how many people are there in the queue?	
	A) 52	C) 50
	B) 47	D) 49

SPACE FOR ROUGH WORK

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SCAN FOR MORE INFORMATION

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NAAT-2022
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