



NSAT-2024

CLASS - V (Mental Ability, Mathematics & Science) (Class V Moving to VI)

NARAYANA SCHOLASTIC APTITUDE TEST (NSAT)

SAMPLE PAPER

Time: 1:00 Hr. Maximum Marks: 160

IMPORTANT INSTRUCTIONS:

- 1. This Booklet consists of 40 questions. The maximum marks are 160.
- 2. There are five parts in the question paper.

 MAT (Q. No. 1 to 8) Mathematics (Q. No. 9 to 19), Physics (Q. No. 20 to 26), Chemistry (Q. No. 27 to

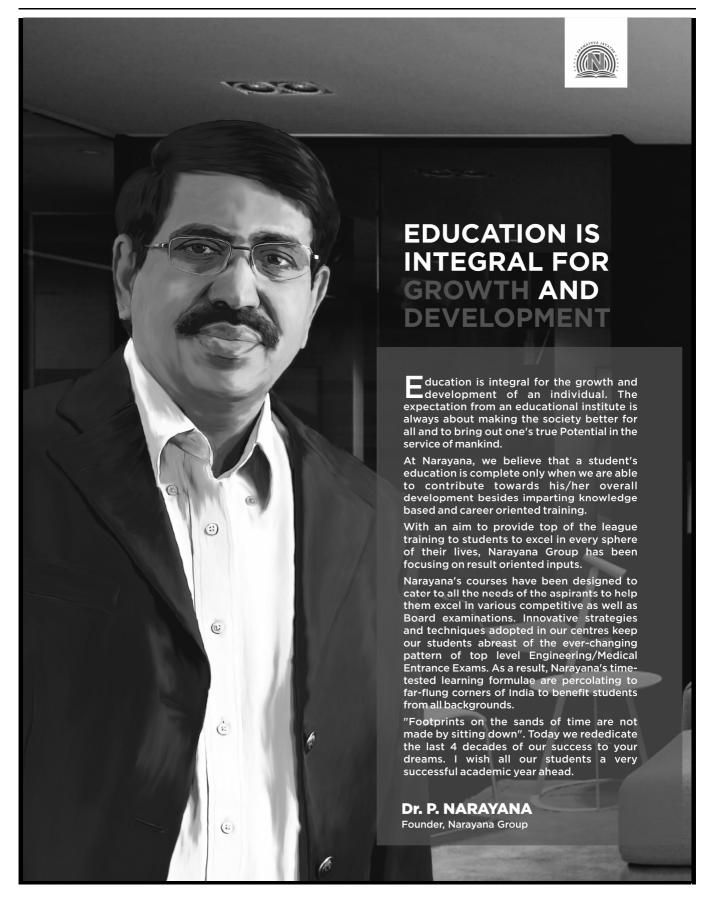
33) & Biology (Q. No. 34 to 40).

Each question is allotted +4 marks for each correct answer & -1 for each incorrect answer

- 3. Mark only one correct answer out of four alternatives.
- 4. Use Blue/Black Ball Point Pen only for writing particulars/marking.
- 5. Use of Calculator is not allowed.
- 6. Darken the circle in the space provided only.
- 7. Use of white fluid or any other material which damage the answer sheet, is not permissible.

TO BE FILLED II	N CAPITAL LETTERS
NAME OF THE STUDENT :	
CONTACT NUMBERS:	SCHOOL NAME :
I have read all the instructions and shall abide by them	I have verified all the information filled in by the Candidate
Signature of the Candidate	Signature of the Invigilator

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MENTAL ABILITY

Direction: This question is based on the following alphabet series.

A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z. 1.

Which letter is the 15th to the left of 9th letter from the right?

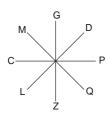
- (A) H
- (B) C
- (C) N
- (D) X

Direction: What will come in place of question mark (?) in the following series

- 2. 15, 20, 25, 30, 35, ?
 - (A) 45
- (B) 55
- (C) 35
- (D) 40

- 3. L, O, R, U, ?
 - (A) X
- (B) Y
- (C)Z
- (D) B
- Pointing to a man, I said, "he is the father of my mother's sister. How is that man related to me? 4.
 - (A) Grand father
- (B) Father
- (C) Brother
- (D) Uncle
- 5. Which of the following is different from the rest of the options?
 - (A) Pen
- NAF(B) Eraser SCHOLA (C) Notebook DET(D) Computer

- 6. Adam is facing North-west. When he turns 4 right angle clock wise direction in which place does he face now?



- (A) D
- (B) C
- (C) M
- (D) L

- 7. $64 \div 4 - 17 = ?$ is equivalent to
 - (A) 17 + 11
- (B) 37 38
- (C) 19
- (D) $30 \div 2$

Space for rough work

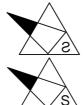
Direction: Find the mirror image of the given picture.

8.



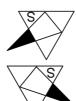
(A)

(C)



(B)

(D)



- The mixed fraction of $\frac{9}{2}$ is 9.
 - (A) $4\frac{2}{1}$

- (D) $4\frac{1}{2}$
- 10. Smallest whole number that is divisible by 10 and 12
 - (A) 40
- NAR(B) 30 NA SCHOLA (C) 60 APTITUDE T
- 11. What are the common factors of 9 and 36
 - (A) 1, 3, 9
- (B) 1, 3, 4, 5, 9
- (C) 1, 4, 5

- 12. Ninety million ninety thousand ninety is
 - (A) 9090090
- (B) 90090090
- (C) 909090
- (D) 9090900

- 13. In 4,768,139, the digit 7 stand for
 - (A) 7 Hundred thousands

(B) 7 Thousands

(C) 7 ten thousand

(D) 70 lakhs

- 14. 1, 3, 7, 15,
 - (A) 31
- (B) 63
- (C) 73
- (D) 84

- 15. 1, 8, 6, 11, 7, _____
 - (A) 14
- (B) 3
- (C) 5
- (D) None of these

Space for rough work

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16.	The product of least two digit numbers and 30 is						
	(A) 10	(B) 30	(C) 300	(D) 0			
17.	17 ÷ 0						
	(A) 0	(B) 1	(C) 17	(D) Impossible			
18.	Area of square is 64	Area of square is 64cm ² . Find its perimeter					
	(A) 32cm	(B) 24cm	(C) 8cm	(D) None of these			
19.	Find the perimeter of	of carpet whose length is	ngth is 3m and breadth is 1.8m				
	(A) 9.5m	(B) 4.5m	(C) 4.6m	(D) 9.6m			
		PHY	'SICS				
			M				
20.	1m =cm.						
	(A) 0.1	(B) 10	(C) 100	(D) 10000			
21.	100 ml is equal to		7334				
	(A) $\frac{1}{4}$ liter	(B) $\frac{1}{2}$ liter	(C) $\frac{1}{10}$ liter	(D) $\frac{1}{5}$ liter			
22.	Which one of the follo	owing are after effects of	STIC ADTITUDE	TEST			
	(A) Cracking of roads	PIRE · ASS	(B) Shattering of buil	dings			
	(C) Collapsing of con	nmunication system	(D) All of these				
23.	The atmosphere is hel	ld to the earth by					
	(A) Winds	(B) Gravity	(C) Clouds	(D) None of the above			
24.	Weightlessness exper	ienced while orbiting th	e earth in space-ship, is	the result of			
	(A) Inertia		(B) Acceleration				
	(C) Zero gravity		(D) Free fall towards	earth			
25.	is the abili	is the ability to do work.					
	(A) Energy	(B) Power	(C) Force	(D) None of these			
26.	Which of the following is the renewable source of energy?						
	(A) Water	(B) Biomass	(C) Petrol	(D) Coal			

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CHEMISTRY

27.	The force of attr	The force of attraction between the particles of matter are least in			
	(A) Solid	(B) Liquid	(C) Gas	(D) None of these	
28.	What happens to the particles in a liquid when it is heated to its boiling point?				
	A) Converted into solid.				
	B) Condensed to liquid.				
	C) They move faster and spread apart.				
	D) They form a solid.				
29.	Which state of matter is characterized by having particles that are very close together and vibrate in place?				
	(A) Solid	(B) Liquid	(C) Gas	(D) Plasma	
30.	Which process in the water cycle is responsible for water vapor turning into clouds?				
	(A) Evaporation	(B) Condensation	(C) Precipitation	(D) Transpiration	
31.	How does planting more trees help improve air quality?				
	(A) Trees absorb nitrogen and release oxygen gas				
	(B) Trees absorb carbon dioxide and release oxygen gas				
	(C) Trees release carbon dioxide and absorb oxygen gas				
	(D) None of these				
32.	Which state of matter takes the shape of its container but has a definite volume?				
	(A) Solid	(B) Liquid	(C) Gas	(D) Plasma	
33.	Which of the following is an example of sublimation?				
	(A) Ice melting into water				
	(B) Water boiling into steam				
	(C) Dry ice changing directly to carbon dioxide gas				
	(D) Water freezing into ice				
		Space	for rough work		

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BIOLOGY

34.	Which components are called protective food?				
	(A) Proteins(C) Vitamins and minerals		(B) Carbohydrates		
			(D) Fats		
35.	Deficiency of proteins and carbohydrate causes				
	(A) Marasmus	(B) Rickets	(C) Anemia	(D) Obesity	
36.	Image is formed on which part of human eye				
	(A) Lens	(B) Eyelids	(C) Retina	(D) Cornea	
37.	Which sense organ makes us feel hot or cold weather.				
	(A) Ears	(B) Nose	(C) Tongue	(D) Skin	
38.	Management of land	and environment to pro	oduce food crop is calle	d	
	(A) Agriculture	(B) Sericulture	(C) Pisciculture	(D) Animal husbandry	
39.	Irrigation helps in		STIC APTITUDE		
	(A) Seed germination RE • ASSI		(B) Make water available to roots of plants		
	(C) Kill pests		(D) Both A and B		
40.	Our body is protected from diseases by our				
	(A) Respiratory system		(B) Immune system		
	(C) Digestive system				

Space for rough work