





NSAT-2025

CLASS – V (Mental Ability, Mathematics, Physics, Chemistry & Biology) (Class V Moving to VI)

NARAYANA SCHOLASTIC APTITUDE TEST (NSAT)

SAMPLE PAPER

Time: 2:00 Hr.

Maximum marks: 300

IMPORTANT INSTRUCTIONS:

- 1. The test Booklet consists of 75 questions. The maximum marks are 300.
- 2. There are five parts in the question paper of MAT (Q. No. 1 to 15) Mathematics (Q. No. 16 to 39), Physics (Q. No. 40 to 51), Chemistry (Q. No. 52 to 63) & Biology (Q. No. 64 to 75) having 75 questions. Each question is allotted +4 (four) marks for each correct response & 0 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. Dark the circle in the space provided only.
- 7. Use of white fluid or any other material which damage the answer sheet, is not permissible on the Answer Sheet.

TO BE FILLED IN CAPITAL LETTERS

NAME OF THE STUDENT:	
FATHER'S NAME:	
CONTACT NUMBERS: S	SCHOOL NAME :
ROLL NO.: TEST CE	NTRE :
have read all the instructions and shall abide by them	I have verified all the information filled in by the Candidate
Signature of the Condidate	Signature of the Invisible
Signature of the Candidate	Signature of the Invigilator

Class V TO VI



EDUCATION IS INTEGRAL FOR GROWTH AND DEVELOPMENT

Education is integral for the growth and development of an individual. The expectation from an educational institute is always about making the society better for all and to bring out one's true Potential in the service of mankind.

At Narayana, we believe that a student's education is complete only when we are able to contribute towards his/her overall development besides imparting knowledge based and career oriented training.

With an aim to provide top of the league training to students to excel in every sphere of their lives, Narayana Group has been focusing on result oriented inputs.

Narayana's courses have been designed to cater to all the needs of the aspirants to help them excel in various competitive as well as Board examinations. Innovative strategies and techniques adopted in our centres keep our students abreast of the ever-changing pattern of top level Engineering/Medical Entrance Exams. As a result, Narayana's timetested learning formulae are percolating to far-flung corners of India to benefit students from all backgrounds.

"Footprints on the sands of time are not made by sitting down". Today we rededicate the last 4 decades of our success to your dreams. I wish all our students a very successful academic year ahead.

Dr. P. NARAYANA Founder, Narayana Group

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(1)

(1)

	NSAT – 2025			Class V TO VI		
		MENTA				
1.	How many c's are th	nere in between two con	sonants in the following	g series?		
	cabcdcdcecfcocicjckcck					
	(1) 4	(2) 5	(3) 6	(4) 11		
2.	6, 12, 7, 11, 8, 10, 9	,?				
	(1) 8	(2) 15	(3) 9	(4) 14		
3.	5X9, 8U12, 11R15,	14018, ?				
	(1) 17L21	(2) 17K21	(3) 17M21	(4) 17L23		
4.	Find odd one out:					
	(1) January	(2) March	(3) February	(4) December		
5.	In the following que	estion you have to visu	alize the i <mark>mage of th</mark> e it	em in the mirror. The mirror is		
	below the item. Cho	ose the mirror image fr	om the alternatives:	and the second sec		
		6				
		(
			mmm			
	(0,0)			$(\mathbf{J}_{\mathbf{a}})$		
	(1)	(2)	(3)	(3)		
6.	F3X, H7U, J15R, L	310, ?				
	(1) M63L	(2) N63L	(3) N61L	(4) N65K		
7.	4, 8, 12, 24, 36, 72,					
	(1) 108	(2) 98	(3) 92	(4) 96		
8.	If South-East becom	nes North, North-East b	ecomes West and so on,	what will South become?		
	(1) North-West	(2) South-West	(3) South	(4) North-East		
9.	Find odd one out:					
	(1) Chalkstick	(2) Pen	(3) Pencil	(4) Brush		
		Space fo	r rough work			

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10.	Find the next term	of the series XM, VL	, TK, RJ,	
	(1) PI	(2) IQ	(3) SL	(4) SQ
11.	4, 9, 20, 43,			
	(1) 133	(2) 84	(3) 96	(4) 90
12.	A, C, F, J, ?, U			
	(1) M	(2) N	(3) O	(4) P
13.	If KING is writter	n PRMT in the same w	ay RAIL can be written a	as ?
	(1) SZMW	(2) VNZT	(3) IZRO	(4) None of these
4.	Mr. Sebastian had	257. He bought an ov	en for 158. How <mark>mu</mark> ch m	oney is left with him?
	(1) 100	(2) 99	(3) 98	(4) 199
15.	Choose one out of	these four figures whi	ch shows the <mark>correct wa</mark> t	ter image of the figure (X).
		МАТ	HEMATICS	(.)
6.	The perimeter of r	egular pentagon of sid	e 8 cm is :	
	(1) 32 cm	(2) 40 cm	(3) 48 cm	(4) 56 cm
7.	Rectangle having	length 10 unit and peri	meter 30 unit then its bre	eadth is :
	(1) 6 unit	(2) 5 unit	(3) 7 unit	(4) 8 unit
8.	Find the average of	of first six multiples of	2.	
	(1) 5	(2) 6	(3) 7	(4) 8
19.	Four pizzas are to	be equally shared amo	ong 5 children. What is ea	ach child's share ?
	$(1) \frac{5}{5}$	$(2)\frac{1}{2}$	$(2)\frac{1}{2}$	$(4) \frac{4}{4}$
		(2)	(3)	
	(1) 4	4	5	5

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20.	What fraction of numbers from 1 to 15 are prime numbers.					
	(1) $\frac{8}{15}$	(2) $\frac{7}{15}$	(3) $\frac{6}{15}$	(4) $\frac{9}{15}$		
21.	What comes next in the sequence: 2, 4, 6, 8,?					
	(1) 10	(2) 9	(3) 7	(4) 12		
22.	2. What is the value of 123×456 ?					
	(1) 55,368	(2) 56,088	(3) 57,108	(4) 58,128		
23.	What is the valu	te of $10000 \div 250$?				
	(1) 30	(2) 35	(3) 40	(4) 45		
24.	Find the differen	nce in the place value of t	he digit 5 in t <mark>he numbe</mark> r	57568.		
	(1) 49500	(2) 45900	(3) 49 <mark>000</mark>	(4) 49050		
25.	If the area and le	ength of a rectangular plo	t are 440 m ² and 2 ² m re	espectively, then find its breadth?		
	(1) 10 m	(2) 20 m	(3) 30 m	(4) 40 m		
26.	The equivalent fraction of $\frac{5}{7}$ with numerator 25 is:					
	(1) $\frac{15}{35}$	(2) $\frac{25}{7}$	$(3) \frac{5}{35}$	(4) $\frac{25}{35}$		
27.	672 is divisible	by NA SCHOL				
	(1) 2 and 3	(2) 3 and 4	(3) 2 and 6	(4) all of these		
28.	The composite number which comes just after 60 is					
	(1) 61	(2) 62	(3) 63	(4) 64		
29.	Which one of th	e following is the smalles	st numeral?			
	(1) 15673	(2) 15700	(3) 15198	(4) 15623		
30.	The length and	breadth of rectangle are 1	0 cm and 6 cm respectiv	rely. Its area will be :		
	(1) 36 cm^2	(2) 60 cm^2	(3) 100 cm^2	(4) 16 cm^2		
31.	A fraction whos	e numerator is less than i	ts denominator is called	:		
	(1) a proper frac	ction	(2) an improper f	raction		
	(3) a mixed frac	tion	(4) none of these			
		Space	for rough work			
		1				



	NSAT – 2025			Class V TO VI	
		PHY	SICS		
40.	Which object is likely to be the lightest?				
	(1) Brick	(2) Feather	(3) Book	(4) Apple	
41.	. Which of these is a non-renewable resource?				
	(1) Wind energy	(2) Solar energy	(3) Coal	(4) Biomass	
42.	When you pull a car	rt, what type of work are	you doing?		
	(1) Pushing	(2) Pulling	(3) Lifting	(4) Carrying	
43.	What is gravity?				
	(1) A force that pull	s objects down towards t	he Earth		
	(2) A force that push	hes objects away from th	e Earth		
	(3) A force that keep	ps objects floating			
	(4) A force that stop	os objects from moving			
44.	Which of these is ar	example of a natural ca	lamity caused by weather	r?	
	(1) Tsunami	(2) Earthquake	(3) Volcanic eruption	(4) Hurricane	
45.	What is work in scie	ence?			
	(1) Playing games		(2) Sleeping		
	(3) Applying force t	o move an object	(4) Eating snacks		
46.	Which force pulls objects towards the center of the Earth?				
	(1) Magnetic force	(2) Gravitational for	ce (3) Electric force	(4) Frictional force	
47.	What should you do	during a thunderstorm?	ESS . AC	~HIEVE	
	(1) Stay outside to w	vatch	(2) Take shelter indoo	ors	
	(3) Go swimming		(4) Fly a kite		
48.	What type of energy	is used when you turn c	on a flashlight?		
	(1) Light energy	(2) Heat energy	(3) Mechanical energ	y (4) Electrical energy	
49.	Why do we feel ligh	nter when swimming in v	vater compared to standir	ng on land?	
	(1) Because water e	xerts an upward buoyant	force		
	(2) Because water h	as less gravitational force	2		
	(3) Because water is	s colder than land			
	(4) Because water is	s denser than air			
		Space for	rough work		

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50.	If a scale bar on a map indicates 1 centimeter equals 10 kilometers, how far is a distance of 5						
	centimeters on the map in kilometers?						
	(1) 5 km	(2) 10 km	(3) 50 km	(4) 100 km			
51.	Which of these is an e	example of potential end	ergy?				
	(1) A running horse	(2) swinging pendulu	im (3) A bouncing ball	(4) A rolling tire			
	CHEMISTRY						
52.	When water evaporates from land and different water bodies, it becomes .						
	(1) ice	(2) snow	(3) rain	(4) water vapour			
53.	Which among the foll	lowing is not a name of	one of the state of matte	r?			
	(1) Solid	(2) Liquid	(3) Glass	(4) Gas			
54.	Which of the substand	ce has the property of tr	ansparen <mark>cy</mark> ?				
	(1) Glass	(2) Air	(3) Clean water	(4) All of these			
55.	Atmospheric water va	apour comes to earth sur	rface in the form of				
	(1) Rain	(2) Snow	(3) Hail	(4) All of these			
56.	Melting point of ice is	s					
	(1) 10°C	(2) 100°C	(3) 0°C	(4) depend on amount of water			
57.	Air is						
	(1) mixture	(2) pure substance	(3) element	(4) none of these			
58.	Water, milk and juice	are example of					
	(1) liquid	(2) solid	(3) gas	(4) all of these			
59.	The layer of ozone is	present in	ESS · A(CHIEVE			
	(1) stratosphere	(2) ionosphere	(3) exosphere	(4) troposphere			
60.	60. Solid \rightarrow liquid : melting :: : freezing						
	(1) Gas \rightarrow liquid	(2) Liquid \rightarrow gas	(3) Solid \rightarrow gas	(4) Liquid \rightarrow solid			
61.	Common salt is obtain	ned from sea water by the	he process of –				
	(1) Sublimation	(2) Evaporation	(3) Condensation	(4) Filtration			
62.	The second main cons	stituent in air is					
	(1) Nitrogen	(2) Oxygen	(3) Argon	(4) Water vapour			
63.	Photosynthesis by pla	int releases:					
	(1) CO	(2) CO_2	(3) N_2	(4) O ₂			

Space for rough work

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		BIOL	OGY		
64.	Which gas do plants take in for photosynthesis?				
	(1) Oxygen	(2) Carbon dioxide	(3) Nitrogen	(4) Hydrogen	
65.	Which organ proc	luces bile?			
	(1) Stomach	(2) Liver	(3) Pancreas	(4) Small intestine	
66.	What is a balance	d diet?			
	(1) Eating only fr	uits			
	(2) Eating only ve	egetables			
	(3) Eating all type	es of nutrients in the right ar	nounts		
	(4) Eating only m	eat			
67.	Which part of the	ear is involved in hearing a	nd balance?		
	(1) Outer ear	(2) Middle ear	(3) Inner ear	(4) Ear drum	
68.	Which part of the	digestive system is a long, c	oiled tub <mark>e where m</mark> ost o	ligestion and absorption occur?	
	(1) Stomach	(2) Small intestine	(3) Large intestine	(4) Oesophagus	
69.	What is the main	function of the stem?	A STATE		
	(1) Absorb water		(2) Transport nutries	nts and support the plant	
	(3) Performs phot	osynthesis	(4) Produce seeds		
70.	What part of the e	eye changes size to control t	he amount of light ente	ering?	
	(1) Iris	(2) Lens	(3) Retina	(4) Pupil	
71.	What is the proce	ss of taking in food through	the mouth called?		
	(1) Digestion	(2) Absorption	(3) Ingestion	(4) Excretion	
72.	Which part of the	flower contains pollen?	ESS • A	CHIEVE	
	(1) Petal	(2) Sepal	(3) Stamen	(4) Pistil	
73.	Birds that swim in	n water have			
	(1) short legs	(2) Long legs	(3) Webbed feet	(4) Clawed feet	
74.	Which adaptation	of rose helps it grow witho	ut being eaten by large	animal?	
	(1) Flowers with (oright colors	(2) Sharp thorns		
76	(3) deep roots		(4) soft stem		
/5.	What is the main	function of the large intestin	1e?	-•	
	(1) Absorb nutries (2) Absorb water	nts	(2) Breakdown prote	eins	
	(3) ADSORD WATER	***	(4) Produce bile		

Space for rough work