

Class VII Moving to Class VIII

MAT, MATHEMATICS, PHYSICS, CHEMISTRY & BIOLOGY

NARAYANA SCHOLASTIC APTITUDE TEST (NSAT)

Time: 1:00 Hr. Date: 28-11-21 Maximum marks: 140

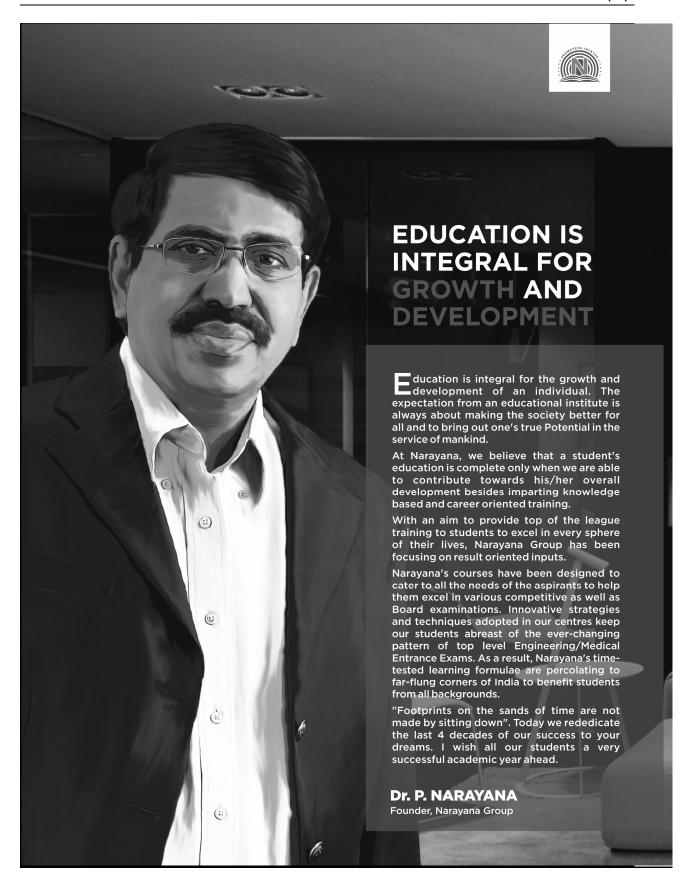
SET-1

IMPORTANT INSTRUCTIONS:

- 1. The test Booklet consists of 35 questions. The maximum marks are 140.
- 2. There are five parts in the question paper of MAT, Mathematics, Physics, Chemistry & Biology having 35 questions. Each question is allotted 4 (four) marks for each correct response.
- 3. No Negative Marking.
- 4. Mark only one correct answer out of four alternatives.
- 5. Use Blue/Black Ball Point Pen only for writing particulars/marking.
- 6. Use of Calculator is not allowed.
- 7. Dark the circle in the space provided only.
- 8. 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:SC	CHOOL NAME :
ROLL NO. :TEST CENTRE :	
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

NSAT – 2021 Class VII (1P)



MENTAL ABILITY

- 1. Look at this series 80, 10, 70, 15, 60, what number should come
 - (A) 20
- (B) 25
- (C) 30
- (D) 50
- 2. Rahul put his timepiece on the table in such a way that at 6 P. M. hour hand points to North. In which direction the minute hand will point at 9:15 P.M. ?
 - (A) South East
- (B) South
- (C) North
- (D) West
- 3. If Q means 'add to', J means 'multiply by', T means 'subtract' and K means 'divide by' then 30 K 2 Q 3 J 6 T 5 = ?
 - (A) 18
- (B) 28
- (C) 31
- (D) 103

4. Which one will replace the question mark?



- (A) 45
- (B) 41
- (C) 32

81

- (D) 40
- 5. Choose the alternative which is closely resembles the water image of the given combination.

GR98AP76ES

- (1) GR68AP73ES
- (5) GA98AP78ES
- (3) GR98AP76ES
- (4) GR98YP76E2

- (A) 1
- (B) 2
- (C)3
- (D) 4
- 6. Choose the alternative which is closely resembles the mirror image of the given combination.

AALOINIARAT LARAIN1014A (1)

- TARAIN4101A (2)
- NIARAT4101A(E)
- **TARAIN1014A (4)**

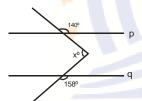
- (A) 1
- (B) 2
- (C)3
- (D) 4
- 7. Starting from the point x, Jayant walked 15 m towards west. He turned left and wlaked 20 m. he then turned left and walked 15m. after this he turned to his right and wlaked 12 m. How far and in which directions is now Jayant form x?
 - (A) 32 m, South
- (B) 47 m, East
- (C) 42 m, North
- (D) 27 m, South

MATHEMATICS

- A tanker contains 500 litres of water. Due to a small hole in the tanker, the quantity of water 8. is decreasing at the rate of 9 litres every hour. What will be quantity of water left in the tanker after 10 hours?
 - (A) 410 litres
- (B) 491 litres
- (C) 400 litres
- (D) 90 litres

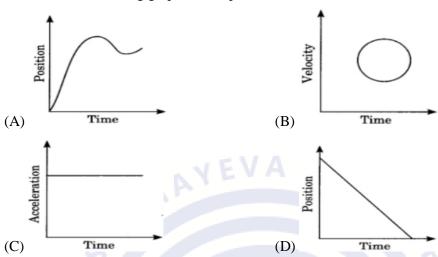
- The value of $1 + \frac{1}{1 + \frac{1}{1 \frac{1}{1}}}$ is 9.
 - (A) $\frac{6}{11}$

- 10. Mean of 9 observations was found to be 35. Later on, it was detected that an observation 81 was misread as 18, then the correct mean of the observations is
 - (A) 40
- (B) 41
- (C) 42
- (D) 43
- 11. In a caravan, in addition to 50 hens there are 45 goats and 8 camels with some keepers. If the total number of feet be 224 more than the number of heads, then the number of keepers is
 - (A) 15 🐩
- (B) 16
- (C) 17
- (D) 19
- 12. Assume $p \parallel q$ in the figure shown, the value of 'x' is



- (A) 18°
- (B) 22°
- $(C) 62^{\circ}$
- (D) can't be determined
- 13. Gold is 19 times as heavy as water and copper is 9 times, as heavy as water. In what ratio should these be mixed to get an alloy 15 times as heavy as water?
 - (A) 1 : 1
- (B) 3:2
- (C) 1:2
- (D) 2:3
- 14. In $\triangle ABC$, AB = 3 cm, BC = 2.6 cm and AC = 1.7 cm, then the angles of the triangles in ascending order is _____
 - (A) $\angle B < \angle A < \angle C$ (B) $\angle A < \angle B < \angle C$ (C) $\angle C < \angle B < \angle A$ (D) $\angle A < \angle C < \angle B$

15. Which of the following graphs is not possible?



- 16. How we measure the energy value of food?
 - (A) Joule
- (B) Joule/Second
- (C) Calorie
- (D) None of the above

- 17. Pick the odd one out
 - (A) Cyclone
- (B) Hurricane
- (C) Monsoon
- (D) Typhoon
- 18. The amount of heat required to raise the temperature of a substance by 1°C is called:
 - (A) Work capacity
- (B) Heat Capacity
- (C) Energy Capacity (D) None of the above
- 19. Which of the following places is most likely to be affected by a cyclone?
 - (A) Mumbai
- (B) Puri
- (C) Goa
- (D) Porbandar
- 20. A particle is moving in a circular path of radius r. The displacement after half a circle would be:
 - (A) Zero
- (B) πr
- (C) 2r
- (D) 2 πr
- 21. A body is thrown vertically upward with velocity u, the greatest height h to which it will rise is,
 - (A) u | g
- (B) $u^2 | 2g$
- (C) $u^2 \mid g$
- (D) $u \mid 2g$

ightharpoonup	ı	V	9	V
υп		M		1

- 22. Which of the following is a weak acid?
 - $(A) H_3PO_4$
- $(B) H_2CO_3$
- (C) H₂SO₄
- (D) HNO₃

- 23. Gypsum salt is
 - (A) $CaSO_4.2H_2O$
- (B) CaSO₄.H₂O
- (C) $CaSO_4 \cdot \frac{1}{2}H_2O$
- (D) CaSO₄

- 24. Which is a base and not an alkali?
 - (A) NaOH
- (B) KOH
- (C) Fe(OH),
- (D) None is true

- Conversion of milk into curd is 25.

 - (A) Physical change (B) Chemical Change (C) Can't Predict
- (D) Both 1 and 2

- 26. Which is an example of physical change?
 - (A) Cooking of food

(B) Boiling of water

(C) Burning magnesium

- (D) Rusting of Iron
- 27. Monomer unit of polyester is
 - (A) Amide
- (B) Ester
- (C) Ethane
- (D) None of these
- 28. The synthetic fiber which contains the organic group similar to those which smell like fruit
 - (A) Nylon
- (B) Acrylic
- (C) Rayon
- (D) Terylene

- Which of the following is undigested semi solid food in ruminants? 29.
 - (A) Cud
- (B) Faeces
- (C) Chyme
- (D) Bolus

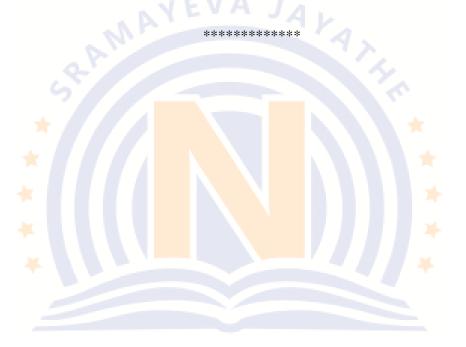
- 30. Climate
 - (A) Refers to average temperature at a place over a long time
 - (B) Refers to average rainfall at a place over a long time
 - (C) Refers to average weather pattern at a place over a long time
 - (D) All of the above
- 31. Respiration is an example of which of the following process?
 - (A) Anabolic
- (B) Catabolic
- (C) Metabolic
- (D) Both (A) & (C)

NSAT - 2021 Class VII (1P)

- 32. Which of the following animals have sticky pads on its feet?
 - (A) Blue eyed frog
- (B) Red eyed frog
- (C) Green eyed frog (D) yellow eyed frog
- 33. Which part of a cactus plant performs photosynthesis?
 - (A) Leaves
- (B) Spines
- (C) Roots
- (D) Stem
- 34. The length of small intestine and large intestine are respectively

 - (A) 7.5 m and 1.5 m (B) 1.5 m and 7.5 m (C) 7.5 m and 1.0 m
- (D) 1.5 m and 7.0 m

- 35. Covering of lungs is called
 - (A) Pericardium
- (B)Pleural membrane (C) Peritoneum
- (D) Perichondrium



NSAT - 2021 Class VII (1P)

COURSES OFFERED FOR STUDENTS STUDYING IN:

Class

1,3 & 5 Year Integrated Courses

8th Moving to 9th

9

1 & 3 Year Integrated Courses

1,2 & 4 Year Integrated Courses School / Board Exams, NTSE, Olympiads, **NEET / JEE (MAIN & ADVANCED FOUNDATION)** Class $\mathbf{0}$

10th Moving to 11th

11th Moving to 12th 1 Year Integrated Courses

Class

NEET / JEE (MAIN & ADVANCED)

SENSATIONAL SUCCESS

in JEE ADVANCED-2021

ALL INDIA OPEN CATEGORY

































48



JEE MAIN 2021

ALL INDIA OPEN CATEGORY TOP 10 RANKS



App. No. 210310208613	App. No. 210310179692
BELOW 100	25 RANKS

126 RANKS 15146

NARAYANA	Percentile & Above	in Maths	in Physics	in Chemistry
	100	70	48	21
STUDENTS WHO	99	719	532	610
SECURED	98	1325	864	1030
HIGHEST	97	1848	1201	1392
PERCENTILE	96	2420	1490	1742
	95	2969	1785	2095
IN MATHS.	94	3502	2076	2447
	93	4035	2401	2807
PHYSICS &	0.0	4670	0716	7100



(0)9

5223 5806 **NEET- 2020**



SHIVA RAMA KRISHNA HT No 1205021314





3022 3364



Below Ranks

32 Ranks Below 100

4 **3** Ranks 200

Below Ranks 300

SOLID FOUNDATION GIVEN BY NARAYANA MAKES STUDENTS WORLD CHAMPIONS IN MATHS, PHYSICS, CHEMISTRY, BIOLOGY, ASTRONOMY, ENGLISH & CYBER OLYMPIADS













100%





















