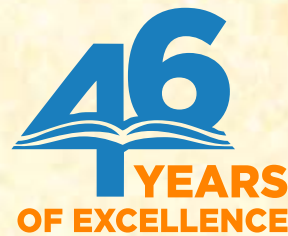




NARAYANA
IIT-JEE/NEET/FOUNDATION

JAIPUR
CENTER



N-ASAT

NARAYANA ADMISSION & SCHOLARSHIP APTITUDE TEST

SAMPLE TEST PAPER

CLASS 7 (MOVING TO 8)

Your Gateway to Desired Success in
JEE (Main+Adv) / NEET

GENERAL INSTRUCTIONS:

This test paper contains **75 Multiple choice questions**. Each questions have four choices (A), (B), (C) and (D) out of which **ONLY ONE** is correct. For every correct answer **4 marks** are awarded and for wrong answer there is a negative marking of **1 mark**. No marks awarded for unattempted questions.

REASONING ABILITY

1. Arrange the given words in the sequence in which they occur in the dictionary.

1. Shroud	2. Shudder	3. Shuffle
4. Shuttle	5. Shrub	
(A) 1,2,3,4,5	(B) 3,2,5,4,1	
(C) 1,5,2,3,4	(D) 1,5,3,2,4	

2. Choose the odd-one out :

(A) Chess	(B) Ludo
(C) Cricket	(D) Carrom

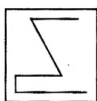
3. If GIVE is coded as 7915 and BAT is coded as 210, how is GATE coded?

(A) 5427	(B) 7105
(C) 5247	(D) 5724

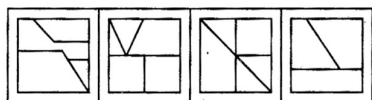
4. K is 40m South-West of L. If M is 40 m South-East of L, then M is in which direction of K?

(A) East	(B) West
(C) North-East	(D) South.

5. In the following questions, choose the alternative figure in which the question figure (X) is embedded.



(X)



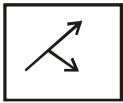
(A) (B) (C) (D)

6. Select the correct set of symbols which will fit in the given equation?

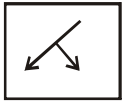
$$5 _ 0 _ 3 _ 5 = 20$$

(A) \times, \times, \times	(B) $-, +, \times$	(C) $\times, +, \times$	(D) $+, -, \times$
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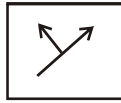
7. Select mirror image



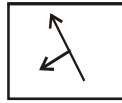
(X)



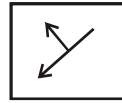
(A)



(B)

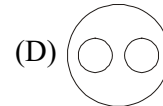
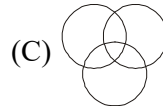
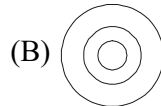
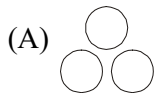


(C)



(D)

8. Choose the venn diagram which best illustrates the three given classes: Numbers, Whole numbers, Natural numbers



9. Find the missing number :

53, 53, 40, 40, 27, 27, ?

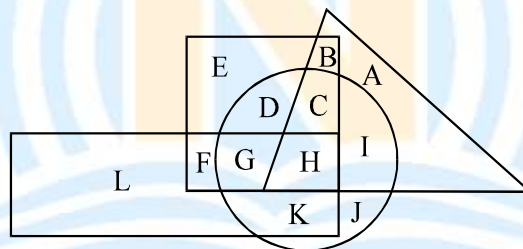
(A) 12

(B) 14

(C) 27

(D) 53

10. In the following diagram, the square represents girls, the circle tall persons, the triangle is for tennis players and the rectangle stands for the swimmers



On the basis of above diagram, which letter represents tall girls who are swimmers but don't play tennis ?

(A) C

(B) D

(C) G

(D) H

11. Choose the alternative which is closely resembles the water-image of the given combination.

ab45CD67

(A) 9p42CDE9

(B) 9p42CDE9

(C) 9p42CDE9

(D) 9p42CDE9

12. If the first five words in the sentence, "Meeta's mother meets me many times" are rearranged in the alphabetical order, which will be the middle word ?

(A) Meeta

(B) Mother

(C) Meets

(D) Me

13. Choose the word which is different from the rest.

- (A) Calender (B) Year
(C) Date (D) Month.

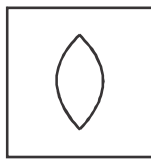
14. If BOMBAY can be written as MYMYMY, how can TAMILNADU be written in that code?

- (A) TIATITATIA (B) MNUMNUMNU
(C) IATITATAT (D) ALDALDALD

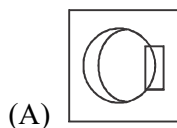
15. Two ladies and two men are playing a bridge game (cards) and are seated around a square table. No lady facing toward East. Person sitting opposite to each other are not of the same gender. One man facing toward South. Which direction are the ladies facing?

- (A) East & West (B) South & East
(C) North & West (D) North & East

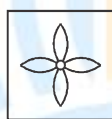
16. Choose the alternative which is closely resembles the embedded figure of the given figure (X).



(X)



(A)



(B)



(C)



(D)

17. Solve the given equation to find the answer

$$(370 \div 70) + 309 - 847 + 86 = ?$$

- (A) 446.72 (B) 464.7 (C) 456 (D) -446.71

18. Find the mirror image of figure (X)



(X)



(A)



(C)



(B)



(D)

19. How many 3's are there in the following series, which are not preceded by an odd number but followed by 4?

1 5 3 2 3 4 6 5 5 3 4 7 8 3 4 9 2 3 4 5 6 3 4 3 5 3 4

(A) None (B) Two (C) One (D) Four

20. Find the missing term.

2, 10, 40, 120, ?

(A) 240 (B) 360 (C) 470 (D) 210

21. Select the combination of numbers so that letters arranged accordingly will form a meaningful word.

T A E W R

1 2 3 4 5

(A) 5 2 1 3 4

(B) 3 1 5 2 4

(C) 4 2 1 3 5

(D) 2 4 1 3 5

22. Choose odd one out

(A) 15

(B) 3

(C) 7

(D) 2

23. If 'TERMINATE' is coded as 27 and 'ELIMINATE' is coded as 27, then what will be code for 'EXHAUST' ?

(A) 23

(B) 7

(C) 21

(D) 35

24. If I walks towards the Sun at the time of sunset, then I turns clockwise 135° and then I turn 45° anti-clockwise, which direction I am facing now ?

(A) North

(B) South-east

(C) North-east

(D) East

25. If $4 * 3 = 12$, $5 \$ 7 = 12$, $10 \# 2 = 5$. Then find value of $24 \# 2 * 5 \$ 10$?

(A) 44

(B) 63

(C) 70

(D) 27

PHYSICS

26. The boiling point of water is -
(A) 180°C (B) 12°C (C) 40°C (D) 100°C
27. Prefix 10^{-6} is
(A) Kilo (B) Mili (C) Micro (D) Centi
28. Which of the following materials does not let electricity to pass through it?
(A) An electric conductor (B) An electric insulator
(C) An electric appliance (D) A key
29. The phenomenon in which light that strikes a surface is thrown back into the same medium is called -
(A) Reflection (B) Refraction (C) Reflex action (D) Regression
30. If a body is at a temperature higher than the room temperature the level of mercury in the thermometer's stem when it comes in contact with the body
(A) Falls (B) Remain at the same position
(C) Rises (D) May rise or fall
31. Which of the following is a fundamental quantity?
(A) Weight (B) amount of substance
(C) Density (D) area
32. A charge 0.5 C passes through a cross section of conductor in 5 s. The current is
(A) 0.1 A (B) 0.2 A (C) 0.3 A (D) 0.6 A
33. The image formed by a plane mirror is:
(A) Real (B) virtual
(C) Virtual with lateral inversion (D) real with lateral inversion
34. Express 100 K in °C.
(A) -273°C (B) 100°C (C) 212°C (D) -173°C
35. If $1\text{ g} = x\text{ kg}$, then value of x is:
(A) 10^{-3} (B) 10^{-2} (C) 10^{+2} (D) 10^{+3}

CHEMISTRY

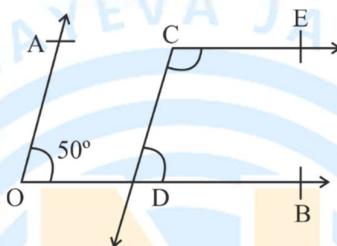
- 36.** Which of the following contains a base?
(A) Curd (B) Vinegar (C) Amla (D) Window cleaner
- 37.** Which of the following is not changed in a physical change?
(A) Size (B) Composition (C) Colour (D) Shape
- 38.** World water day is celebrated every year on _____.
(A) 21 March (B) 21 June (C) 22 March (D) None of the above
- 39.** Which one of the following contains lactic acid?
(A) Amla (B) Grapes (C) Unripe mangoes (D) Curd
- 40.** What kind of change occurs when the tip of the blade is placed on a gas stove?
(A) Chemical change (B) Physical change
(C) No change (D) Irreversible change
- 41.** Which of the following are the characteristics of wastewater?
(A) Rancid taste (B) Offensive smell
(C) Dirty look (D) All of the above
- 42.** How will the addition of turmeric affect the colour of lime water?
(A) The solution becomes blue in colour
(B) The solution becomes red in colour
(C) The solution becomes yellow in colour
(D) The solution becomes pink in colour
- 43.** Which of the following does not represent a chemical change?
(A) Burning of leaves (B) Fermentation of grapes
(C) Turning brown of freshly cut banana (D) Freezing of water
- 44.** Which of the following is a step in wastewater treatment?
(A) Filtration (B) Aeration (C) Chlorination (D) All of the above
- 45.** Why is organic matter added to the soil?
(A) Because organic matter is basic in nature
(B) Because organic matter releases acids in the soil
(C) Due to the neutral nature of organic matter
(D) Because organic matter is crucial for soil.

BIOLOGY

46. Which of the following is not needed for photosynthesis:
(A) Iodine solution (B) CO₂ (C) Chlorophyll (D) Water
47. Dental formula of a child is:
(A) $\frac{2102}{2102}$ (B) $\frac{2120}{2120}$ (C) $\frac{2123}{2123}$ (D) $\frac{2111}{2111}$
48. In human beings, muscle cramps occur after heavy exercise, it is because
(A) Breakdown of glucose aerobically produces lactic acid
(B) Breakdown of glucose anaerobically produces lactic acid
(C) Muscle cells respire in the presence of oxygen
(D) Breakdown of glucose produces alcohol.
49. Most thick walled and largest chamber of heart is –
(A) Right auricle (B) Right ventricle (C) Left auricle (D) Left ventricle
50. Which one is not a autotroph?
(A) Plants (B) Blue Green Algae (C) Fungi (D) Algae
51. Which set is mixed with the food in small intestine?
(A) Saliva, gastric juice, bile (B) Gastric juice, bile, pancreatic juice
(C) Bile, pancreatic juice, intestinal juice (D) Bile, pancreatic juice & saliva
52. Organism used in the industrial preparation of ethanol is:
(A) Lactobacillus (B) Azotobacter
(C) Penicillin (D) Saccharomyces (yeast)
53. The contraction phase of the heart is called as _____
(A) Systole (B) Diastole (C) Heart beat (D) Hypertension
54. The fluid matrix of blood is called
(A) Lymph (B) Plasma (C) Corpuscles (D) Coelomic fluid
55. Which one is correct match?
(A) Iron → Ricket (B) Vitamin A → Scurvy
(C) Iodine → Goitre (D) Calcium → Anaemia

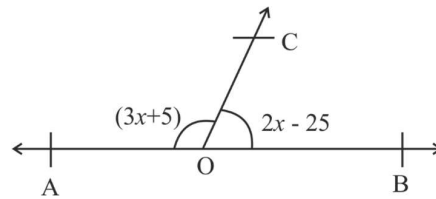
MATHEMATICS

56. The sum of two integers is -6 . If one of them is 2 , then the other is
 (A) -4 (B) 4 (C) 8 (D) -8
57. The reciprocal of $1\frac{2}{3}$ is
 (A) $3\frac{1}{2}$ (B) $2\frac{1}{3}$ (C) $1\frac{1}{3}$ (D) $\frac{3}{5}$
58. If $2x + \frac{5}{3} = \frac{1}{4}x + 4$ then x
 (A) 3 (B) 4 (C) $\frac{3}{4}$ (D) $\frac{4}{3}$
59. In the joining figure, it is being given that $AO \parallel CD$, $OB \parallel CE$ and $\angle AOB = 50^\circ$ then $\angle ECD$.



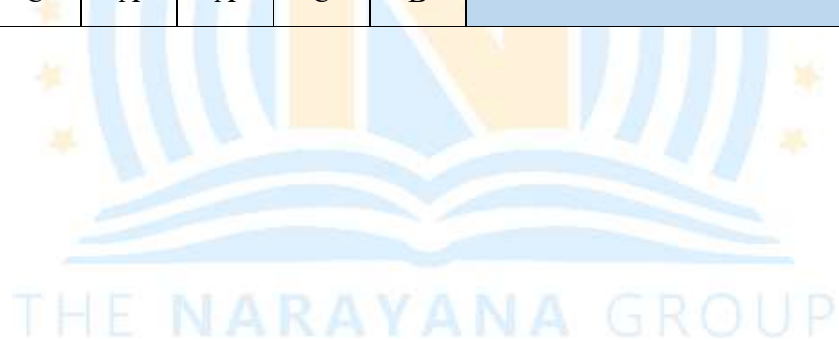
- (A) 130° (B) 50° (C) 100° (D) None of these
60. An Exterior angle of a triangle measures 110° and its interior opposite angles are in the ratio $2:3$ then one of its interior opposite angle is
 (A) 44° (B) 66°
 (C) 76° (D) Both (A) and (B)
61. Each side of an equilateral triangle is 8 cm long. Its area is
 (A) 31 cm^2 (B) 64 cm^2 (C) $16\sqrt{3}\text{ cm}^2$ (D) $16\sqrt{2}\text{ cm}^2$
62. Subtract: $2p^2 - 5p + 7$ from $6 + p - 3p^2$
 (A) $5p^2 + 6p - 1$ (B) $-5p^2 + 6p - 1$ (C) $p^2 + 6p - 1$ (D) $5p^2 + p - 1$
63. $(-27) \times (-16) + (-27) \times (-14) = ?$
 (A) -810 (B) 810 (C) -54 (D) 54
64. What should be subtracted from 0.1 to get 0.03 ?
 (A) 0.7 (B) 0.07
 (C) 0.007 (D) None of these

65. A number when multiplied by 4 is increased by 54. The number is
 (A) 21 (B) 16 (C) 18 (D) 19
66. In the adjoining figure, the value of $\angle AOC$ such that AOB is a line segment.



- (A) 40° (B) 55° (C) 125° (D) 180°
67. If the angles of a triangle are in the ratio 2: 3: 4 then the largest angle is
 (A) 40° (B) 60° (C) 80° (D) 115°
68. The length and breadth of rectangular part are in the ratio 4 : 3 and its perimeter is 56 m. The area of the field is
 (A) 192 m^2 (B) 300 m^2 (C) 432 m^2 (D) 228 m^2
69. Multiply $16x^2y^3$ by $4x^4y^3z$
 (A) $64x^6y^6z$ (B) $64x^8y^9z$ (C) $64xy^2z$ (D) $44x^4y^2z$
70. $(-8) \div 0 = ?$
 (A) -8 (B) 0 (C) Not defined (D) None of these
71. By what number should $1\frac{3}{4}$ be divided to get $2\frac{1}{2}$?
 (A) $\frac{3}{7}$ (B) $1\frac{2}{5}$ (C) $\frac{7}{10}$ (D) $1\frac{3}{7}$
72. If $\frac{x-2}{3} = \frac{2x-1}{3} - 1$ then x
 (A) 2 (B) 4 (C) 8 (D) 8
73. The complement of an angle of 68° is
 (A) 22° (B) 25° (C) 28° (D) 35°
74. Which of the following measurements can't forms a triangle?
 (A) 4, 5, 6 (B) 7, 8, 9 (C) 1, 2, 3 (D) 10, 11, 12
75. The base and Height of a triangle are 12 m and 8 m respectively. Its area is
 (A) 96 m^2 (B) 48 m^2 (C) $16\sqrt{3} \text{ m}^2$ (D) $16\sqrt{2} \text{ m}^2$

ANSWER KEY										
Que.	1	2	3	4	5	6	7	8	9	10
Ans.	C	C	C	A	D	B	C	B	B	C
Que.	11	12	13	14	15	16	17	18	19	20
Ans.	B	A	A	B	C	C	D	C	D	A
Que.	21	22	23	24	25	26	27	28	29	30
Ans.	C	A	C	A	C	D	C	B	A	C
Que.	31	32	33	34	35	36	37	38	39	40
Ans.	B	A	C	D	A	D	B	C	D	B
Que.	41	42	43	44	45	46	47	48	49	50
Ans.	D	B	D	D	B	A	A	B	D	C
Que.	51	52	53	54	55	56	57	58	59	60
Ans.	C	D	A	B	C	D	D	D	A	D
Que.	61	62	63	64	65	66	67	68	69	70
Ans.	C	B	B	B	C	C	C	A	A	C
Que.	71	72	73	74	75					
Ans.	C	A	A	C	B					



NARAYANA

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Campus-3: 392, Shri Gopal Nagar, Gopalpura Bypass

Campus-4: Plot A-14 & 36, Near Khatipura Tiraha, Hanuman Nagar

Campus-5: Plot No.4, Shri Gopal Nagar, Near Zudio, Gopalpura Bypass

Campus-6: 3-A, D. L. Tower, Vidyashram Institutional Area, Behind RAS Club, JLN Marg



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