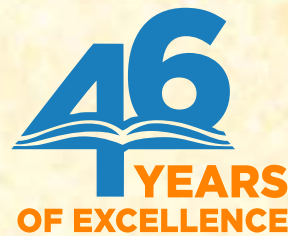




NARAYANA
IIT-JEE/NEET/FOUNDATION

JAIPUR
CENTER



N-ASAT

NARAYANA ADMISSION & SCHOLARSHIP APTITUDE TEST

SAMPLE TEST PAPER

CLASS 6 (MOVING TO 7)

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 alphabetical order and choose the one that comes at the second place.
(A) Heredity (B) Hesitate (C) Heavy (D) Hedge
2. If in a certain language, the code for “BOARD” is “*&@#!”. Then what is the code for “ROAD”?
(A) #&@! (B) #@!& (C) *&#! (D) #*!@
3. An Airplane is flying in North-East direction. The pilot turns the plane by an angle of 90° to the left. In which direction is the plane flying now?
(A) South-East (B) North-West
(C) North-East (D) South-West
4. Find the mirror image of ‘LOCK1’.
(A) 1OCKI (B) 1XCOI (C) LOCK1 (D) 1KCOI
5. Find the missing term in the following series.
19, 14, 24, 19, 39, ?
(A) 49 (B) 34 (C) 59 (D) 28
6. There are five friends S, R, V, A and N. R and A like football, but the others like tennis. Only N, R and S like going abroad for their holiday. All but A and V have piano lessons. Who likes football and also likes going abroad for their holiday?
(A) V (B) S (C) R (D) N
7. Arrange the words in dictionary order and choose correct sequence.
1. Handkerchief 2. Handsome 3. Handloom
4. Handglass 5. Handicraft
(A) 1, 2, 4, 5, 3 (B) 5, 4, 3, 2, 1
(C) 4, 5, 1, 3, 2 (D) 5, 4, 1, 3, 2
8. If 'rat' is called 'dog', 'dog' is called 'lion', 'lion' is called 'snake' and 'snake' is called an 'elephant'. Which is smallest in size ?
(A) Rat (B) Dog (C) Lion (D) Snake

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

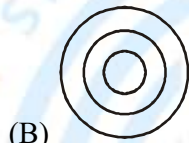
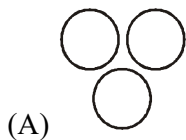
I C P S E

1 2 3 4 5

- (A) 4,3,1,2,5 (B) 4,3,2,1,5 (C) 4,3,2,5,1 (D) 4,5,3,2,1
10. If in a certain language, the code for “SOLID” is “ULPDJ”. Then what is the code for “LIQUID”?
- (A) NFRPOW (B) NFUPOW (C) NFUPOX (D) NFUPOZ
11. Find the missing term in the series :

0, 0, 2, 6, 12, 20, ?

- (A) 30 (B) 28 (C) 32 (D) 34
12. Identify the Venn Diagram of Shimla, Telangana, Himachal Pradesh



13. Find the mirror-image of REPUBLIC ?

- (A) CLIBUPER (B) REPUBLIC
(C) CLIBUPER (D) CILBUPER

14. Find the missing term in the following series.

2,3,5,7,11,13,17,?

- (A) 19 (B) 9 (C) 7 (D) 6
15. G, H, I, J, K and L are sitting in a row. K and L are in the centre, G and H are at the ends. I is sitting on the left of G. Then who is sitting on the right of H?
- (A) G (B) K (C) J (D) L

16. If you pickup from the English alphabet, the sixth and fourteenth letters from your right and then pickup the fifth and twentieth letters from your left and form meaningful word. What is the first letter of that word ?

- (A) U (B) M
(C) E (D) No word is formed

17. Vivek walks 7 km in East, then he turned left and travelled 5 km and finally he turned left and walk 7 km. How far is he from his starting point?

(A) 5 km (B) 14 km (C) 7 km (D) 12 km

18. Find the mirror image of 'QWERTY'.

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

19. What comes next in the series below?

3, 9, 27, ?, 243

(A) 196 (B) 154 (C) 121 (D) 81

20. Which of the following diagram indicates the best relation between Earth, Sea and Sun?



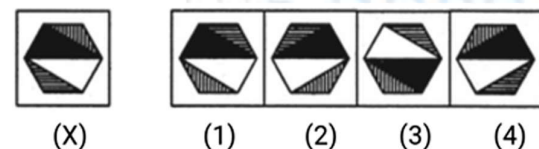
21. If C is coded as 6 and E is coded as 10. Then what will be code for 'TOM' ?

(A) 201513 (B) 152013 (C) 403026 (D) 302640

22. If X is to the south of Y and Z is to the east of Y. In what direction is X with respect to Z ?

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

23. Choose the correct mirror image of the given figure (X) from amongst the four alternatives.



24. Find the missing term in the series

1, 8, 27, 64, 125, ?

(A) 175 (B) 190 (C) 205 (D) 216

25. A, B, C, D, E and F are sitting around a round table. A is between E and F, E is opposite to D and C is not in either of the neighbouring seats of E. Who is opposite to B ?

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

PHYSICS

26. The ratio of S.I. unit to C.G.S. unit of mass is
(A) 1: 100 (B) 100: 1 (C) 1: 1000 (D) 1000: 1
27. A light ray is incident normally on a plane mirror. then its direction of reflected ray is
(A) Same as incident ray (B) Opposite to incident ray
(C) Both A & B (D) neither A nor B
28. Current is measured by an instrument is called _____.
(A) Thermometer (B) Ammeter (C) Volt (D) Second
29. If work is the product of force and length, then its unit can be written as
(A) Nm^{-1} (B) Nm^2 (C) Nm (D) N
30. A man standing in front of a plane mirror finds his image at a distance 6 meter from himself. The distance of man from the mirror is
(A) 3 m (B) 4 m (C) 6 m (D) 10 m
31. A body is said to have 1 coulomb charge, if it has excess or deficit of
(A) 6.25×10^6 electrons (B) 6.25×10^{16} electrons
(C) 6.25×10^{18} electrons (D) 6.25×10^9 electrons
32. A system used to measure mass, length and time is
(A) GPS system (B) MLT system (C) MIC system (D) CGS system
33. According to the law of reflection:
(A) $i/r = \text{constant}$ (B) $\sin i/\sin r = \text{constant}$
(C) $i + r = \text{constant}$ (D) $i = r$
34. Relation between current (I) and charge (q) is (If t = time)
(A) $I = qt$ (B) $I = q/t$
(C) $q = I/t$ (D) $t = I/q$
35. In C.G.S. system the unit of volume is
(A) m^2 (B) cm^3
(C) kg^2 (D) s^2

CHEMISTRY

36. Which of the following is not a matter?
(A) Air (B) Steel (C) Water (D) Hate
37. Which of the following processes can be used to separate a liquid from an insoluble solid?
(A) Evaporation (B) Sedimentation (C) Distillation (D) Filtration
38. Choose the incorrect statement from the following:
(A) Air is a mixture of gases.
(B) The composition of oxygen in the air is the maximum.
(C) The envelope of air that surrounds the earth is the atmosphere.
(D) Aquatic plants and animals use dissolved oxygen in the water.
39. The liquid that floats on water is
(A) milk (B) coconut oil (C) alcohol (D) Tea
40. Which of the following processes is used to separate grains from stalks?
(A) Threshing (B) Winnowing (C) Handpicking (D) Sedimentation
41. The gas breathed out by human beings and animals, which is used by plants is:
(A) Oxygen (B) Carbon dioxide
(C) Nitrogen (D) Water vapour
42. Which gas is responsible for fizz in soft drinks?
(A) Oxygen (B) Hydrogen (C) Nitrogen (D) Carbon dioxide
43. In the process of distillation, evaporation is followed by _____.
(A) Filtration (B) Sublimation
(C) Condensation (D) None of the above
44. Oxygen and carbon dioxide are replaced in nature by:
(A) Photosynthesis (B) Respiration
(C) Both (A) and (B) (D) Transpiration
45. Which of the following is soluble in water?
(A) Salt (B) Sand (C) Chalk powder (D) None of these

BIOLOGY

46. Guava, lemon, orange and tomato are rich in
(A) Vit – A (B) Vit – B (C) Vit – C (D) Vit – D
47. In mangrove vegetation, plants possess -
(A) Tap root (B) Stilt root (C) Pneumatophores (D) Haustorial roots
48. The earth has many different types of plants and animals. Which word best describes the above statement?
(A) Division (B) Diversity (C) Similarity (D) Tropical
49. Look at the following food chain?
Grass → Zebra → Lion, here grass is a _____.
(A) Herbivore (B) Omnivore (C) Producer (D) Saprophyte
50. Which of the following plants contains tendrils?
(A) Grapevine (B) Cucurbita (C) Datura (D) Both A & B
51. From amongst the following, select the abiotic components
(i) Air (ii) Water (iii) Heat (iv) Sunlight
(A) i and ii only (B) ii and iii only (C) iii and iv only (D) all of these
52. Honeybee makes honey from
(A) Pollen (B) Petals (C) Nectar (D) Bud
53. Tiny pores are found on the surface of the leaves of the plants. These pores are called _____.
(A) Stomata (B) Lenticels (C) Cuticles (D) Bark
54. Select the characteristics that a plant adapt to survive in desert
(A) Its leaves are modified into spines
(B) Its stem is covered with thick waxy layer
(C) Its root penetrate deep into the ground
(D) All of the above
55. Examples of body building foods:
(A) Carbohydrates (B) Protein
(C) Fat (D) Minerals

MATHEMATICS

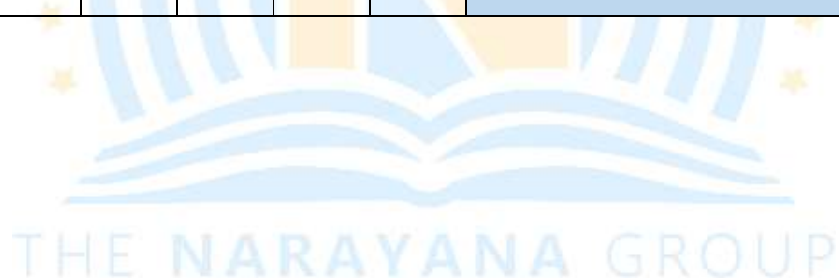
56. How many lakhs are there in one million?
(A) 100 (B) 10
(C) 1000 (D) None of these
57. The whole numbers do not satisfy closure property under.
(A) Addition (B) Subtraction
(C) Multiplication (D) None of these
58. An example for twin primes.
(A) 5, 11 (B) 3, 5
(C) 11, 17 (D) 3, 7
59. The longest chord of a circle is
(A) Tangent (B) Radius
(C) Diameter (D) None of these
60. How many times does the digit 9 occur between 1 and 100?
(A) 11 (B) 15
(C) 18 (D) 20
61. The simplest form of $\frac{1140}{1080}$ is
(A) 19/18 (B) 7/18
(C) 18/19 (D) 18/7
62. If $x : y = 5 : 2$ then $(8x + 9y) : (8x + 2y)$ is
(A) 22: 29 (B) 26: 61
(C) 29: 22 (D) 61: 26
63. The difference between the place values of 8 in 8248 is
(A) 7920 (B) 7992
(C) 7200 (D) 7929
64. The value of $(593 \times 999) + 593$
(A) 592407 (B) 592408
(C) 593000 (D) 59300
65. A is the 5th prime number. B is the 7th prime number. What is B–A?
(A) 6 (B) 8
(C) 12 (D) 2

66. ABCD is a parallelogram then $\angle A - \angle C$ is
 (A) 180° (B) 0°
 (C) 360° (D) 90°
67. The sum of additive inverse and additive identity of 810 is
 (A) 810 (B) -810
 (C) -54 (D) 54
68. Ascending order of $\frac{2}{3}, \frac{1}{2}$ and $\frac{1}{6}$ is
 (A) $\frac{1}{6}, \frac{1}{2}, \frac{2}{3}$ (B) $\frac{2}{3}, \frac{1}{6}, \frac{1}{2}$
 (C) $\frac{1}{6}, \frac{2}{3}, \frac{1}{2}$ (D) $\frac{2}{3}, \frac{1}{2}, \frac{1}{6}$
69. If $2A = 3B = 4C$ then A: B: C
 (A) 2: 3: 4 (B) 4: 3: 2
 (C) 6: 4: 3 (D) 20: 15: 12
70. If the digits 2, 1, 3, 5, 6, 7, 0, 2 are arranged to form number then largest number formed is
 (A) 76532210 (B) 76532201
 (C) 23615207 (D) 7653210
71. The difference between the largest four-digit number and the smallest three-digit number is
 (A) 999 (B) 899
 (C) 9000 (D) 9899
72. Among the following coprime is
 (A) (5, 7) (B) (5, 20) (C) (15, 20) (D) (6, 18)
73. The polygon with the least number of sides is
 (A) quadrilateral (B) triangle (C) rectangle (D) circle
74. $1 - 2 + 3 - 4 + 5 - 6 + 7 - 8 + 9 - 10 =$
 (A) 5 (B) 6 (C) -5 (D) -6
75. Compare and fill the box

$$3\frac{1}{7} - \frac{2}{3} + \frac{1}{5} \quad \boxed{?} \quad 2\frac{1}{6} + 1\frac{1}{3} - 2\frac{2}{5}$$

- (A) < (B) >
 (C) = (D) None of these

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

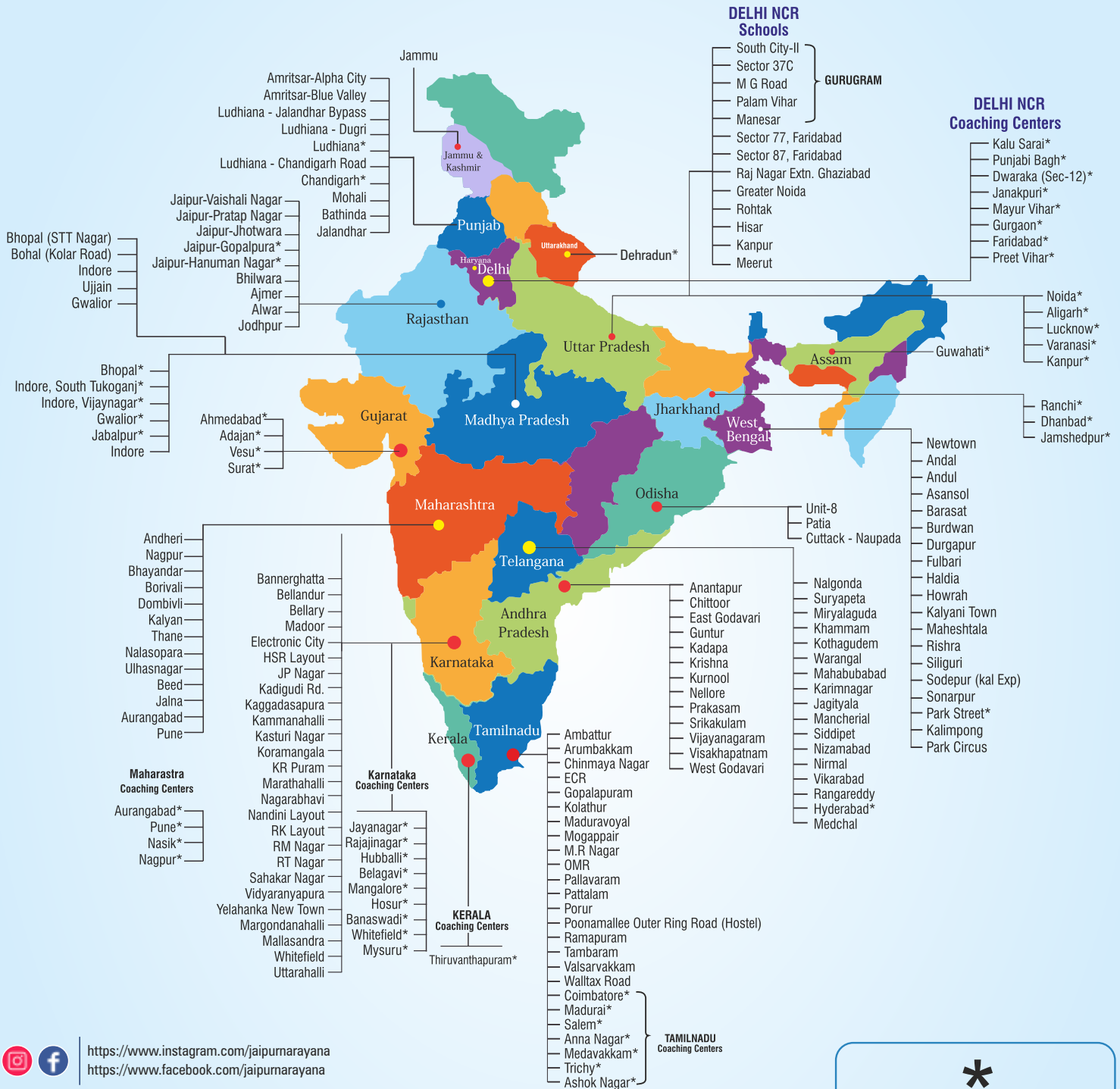


NARAYANA

OPERATIONS ACROSS INDIA



Schools, Colleges
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JEE (Main + Advanced)/NEET/FOUNDATION
COACHING CENTERS

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Campus-1(City H.O.): B-28,10-B Scheme, Near Ridhi Sidhi Circle, Gopalpura Bypass

Campus-2: B-293,10-B Scheme, Rudra Tower, Opp. Indian Oil Pump, Gopalpura Bypass

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



www.narayanajaipur.com



jaipur@narayanagroup.com



0141-4848000

Corporate Office : 10th Floor, Melange Towers Sy No.80 to 84, Patrika Nagar, Madhapur, Hyderabad, Telangana 500081