

NTSE Practice Paper -03
Scholastic Aptitude Test (Mental Ability Test)

Directions: Questions (1 to 5) : In the number series given below, one number is missing. Each series is followed by five alternatives (1), (2), (3), and (5). One of them is the right answer.

Identify and indicate it as per the Instructions".

1. 150, 140, 125, 105,

1. 90
2. 80 **(Ans.)**
3. 85
4. 75
5. 95

2. 231, 342, 453, 564,

1. 576
2. 475
3. 675 **(Ans.)**
4. 567
5. 676

3. 796, 675, 554, 433,

1. 512
2. 231
3. 213
4. 312 **(Ans.)**
5. 321

4. 243, 81,9, 3

1. 28
2. 27 **(Ans.)**
3. 23
4. 29
5. 45

5. 1, 5, 13, 29,

1. 60
2. 61 (Ans.)
3. 59
4. 42
5. 45

Directions: Questions (6 to 9) are based upon letter analogy. There are two pairs of letter combinations in each question. The first (Left hand side) pair has some relationship between its members. In the second pair one member is missing. Find this out from answers (1), (2), (3), (4), and (5), such that this pair has similar relationship as the first pair. Indicate your answers as per the "Instructions".

6. CDBE : EFDG :: NOMP : ?

1. PQRO
2. POQR
3. OPQR
4. NPQO
5. PQOR (Ans.)

7. XYZ: CBA :: UVW :?

1. DEF
2. EFD
3. DFE
4. FED (Ans.)
5. EDF

8. VST : URS :: NKL :?

1. KLM
2. MJK (Ans.)
3. KJM
4. JKM
5. JKL

9. JAK : KCL :: MBN:?

1. NDO (Ans.)
2. MDO
3. NDL

4. NEL
5. NEO

Directions: Questions (10 to 14): In the following questions, Letters/Letter groups, are arranged in a particular order with, some, underlying criterion. Study the order and choose the answer form the alternatives fill the gaps.

10. XCD,, VEF, UFG

1. WED
2. DEW
3. WDE (**Ans.**)
4. XDE
5. XED

11. AIS, CKU,, GOY

1. DMX
2. DMW
3. EMV
4. EMW (**Ans.**)
5. EMX

12. TGS, RIQ,, NMM

1. POK
2. PKO (**Ans.**)
3. PQR
4. POR
5. PKR

13. EFFG, HIIJ, KLLM, NOOP,

1. RSST
2. QRRS (**Ans.**)
3. QRST
4. QSST
5. PQQR

14. ABCD, BCDA, CDAB,

1. DABC (**Ans.**)
2. CBDA

3. DCBA
4. CABD
5. CDBA

Directions: Questions (15 to 16): In each of the following questions, five words are given. If they are arranged in alphabetical order as in a Dictionary, find out which word comes first. Indicate your answer as per the "Instructions."

15. Find out which word comes first.

1. Dirt **(Ans.)**
2. Discount
3. Drug
4. Dummy
5. Dozen

16. Find out which word comes first.

1. Vase
2. Vessel
3. Urn
4. Union **(Ans.)**
5. Wage

Directions : Questions (17 to 22): In each of the following questions, five words are given. Four of them are alike in some way. One is different from them. Identify it and indicate as per "Instructions".

17. One is different from them, identify it.

1. Lion
2. Tiger
3. Elephant **(Ans.)**
4. Jackal
5. Leopard

18. One is different from them, identify it.

1. Orange
 2. Honey **(Ans.)**
 3. Apple
-

-
4. Lemon
 5. Melon
19. One is different from them, identify it.
1. Heart
 2. Liver
 3. Lungs
 4. Eyes **(Ans.)**
 5. Kidney
20. One is different from them, identify it.
1. Chair **(Ans.)**
 2. Pen
 3. Pencil
 4. Paper
 5. File
21. One is different from them, identify it.
1. Kho-Kho **(Ans.)**
 2. Football
 3. Volleyball
 4. Hockey
 5. Tennis
22. One is different from them, identify it.
1. Earth
 2. Jupiter
 3. Sun **(Ans.)**
 4. Saturn
 5. Venus

Directions: Questions (23 to 25) In these questions, there is a certain relationship between two given words on one side of :: and one word is given on another side of ::, the other word is to be found out from the given five alternatives so that the relationship is the same as for the other pair. Identify correct answer and indicate it as per the "Instructions."

23. Hockey : Stick :: Tennis : ?

1. Bat
2. Racket **(Ans.)**
3. Ball
4. Court
5. Player

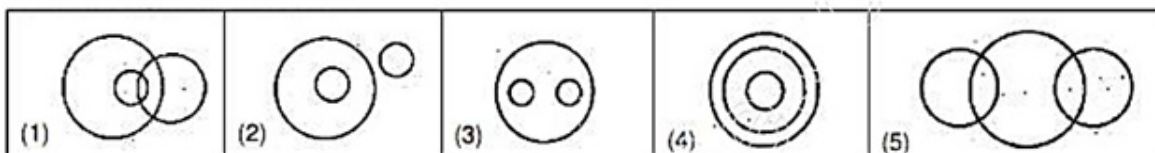
24. Oxygen : Heart :: Fuel :?

1. Car
2. Engine **(Ans.)**
3. Truck
4. Bike
5. Plane

25. Orange : Fruit :: Spinach: ?

1. Vegetable **(Ans.)**
2. Root
3. Bush
4. Flower
5. Branch

Directions: Questions (26 to 28) are based on the following diagrams. Study them carefully and indicate correct answers as per the "Instructions".



26. People, Professors, Oranges.

1. img-1
2. img-2 **(Ans.)**
3. img-3
4. img-4
5. img-5

27. District, Mandal, Panchayat.

1. img-1
2. img-2
3. img-3

4. img-4 (Ans.)

5. img-5

28. Fruits, Oranges, Millets

1. img-1

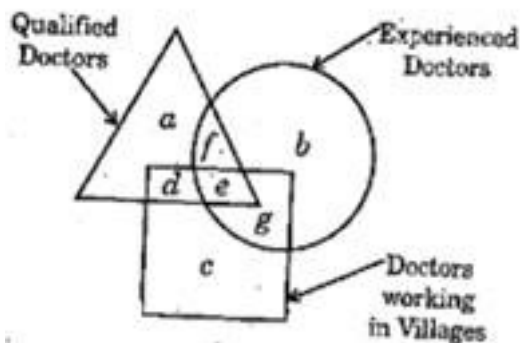
2. img-2 (Ans.)

3. img-3

4. img-4

5. img-5

Directions: Questions (29 to 31) : With the help of the given diagram, answer the following questions making the right choice from the given alternatives. Indicate the answer as per the "Instructions"



29. Experienced but not qualified doctors working in villages are represented by

1. g (Ans.)

2. c

3. b

4. d

5. f

30. Doctors who are neither qualified nor experienced but working in villages are represented by

1. c (Ans.)

2. g

3. d

4. e

5. b

31. Qualified but not experienced doctors working outside of villages are represented by

1. f
2. e
3. d
4. b
5. a **(Ans.)**

Directions: Questions (32 to 34) : If in a language (say English), A is coded as 1, B is coded as 2 and so on, how are the following letters groups are coded in that language?

32. HBDFE

1. 82654
2. 84265
3. 82465 **(Ans.)**
4. 86426
5. 84626

33. GCEAI

1. 72519
2. 73519 **(Ans.)**
3. 73591
4. 75391
5. 71539

34. IHGFED

1. 987651
2. 978562
3. 897654
4. 897645
5. 987654 **(Ans.)**

Directions: Questions (35-36) : If in a language, RIDGE is coded as 43567 and NAME is coded as 8217, how are the following words coded ? Indicate the answer as per "Instructions".

35. RANGER

1. 428674 **(Ans.)**
2. 428764

3. 428874

4. 448672

5. 426874

36. IMAGE

1. 32167

2. 31267 (Ans.)

3. 32176

4. (4)32267

5. 31266

Directions: Questions (37 to 41) are based on simple arithmetic principles, Find the right answer from among the alternatives and indicate it as per the "Instructions".

37. $50.9 - 7.5 + 1.6 =$

1. 40.0

2. 35.0

3. 36.0

4. 45.0 (Ans.)

5. 44.5

38. $(44 \div 1000) + 0.006 = ?$

1. 0.44

2. 0.05 (Ans.)

3. 0.005

4. 0.045

5. 0.046

39. $(7)^3 - 33 = ?$

1. 300

2. 305

3. 320

4. 330

5. 310 (Ans.)

40. $\frac{26}{4} + \frac{14}{3} = ?$

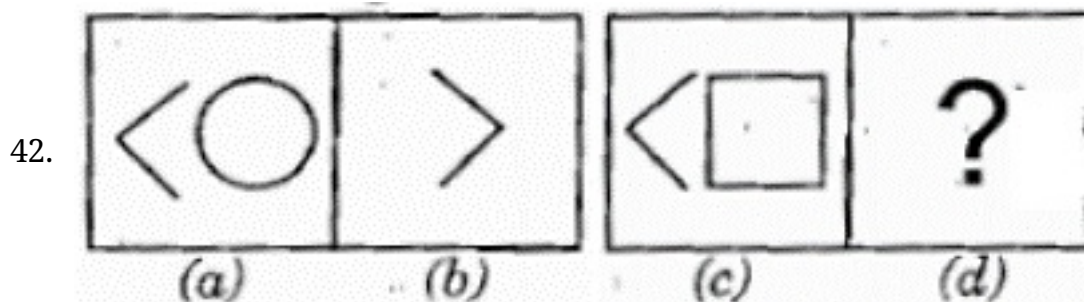
1. 11.0



2. $10\frac{1}{6}$
3. $11\frac{1}{6}$ (Ans.)
4. $12\frac{1}{5}$
5. $11\frac{2}{3}$

41. $5678 + 4321 = ?$

1. 9999 (Ans.)
2. 9899
3. 9900
4. 9990
5. 9099

Directions: Questions (42-43) : Each question has four problem figures 'a', 'b', 'c' and 'd'. Figure 'd' has only a question mark '?'. Figure 'b' bears certain relationship to 'a'. Similarly one of the answer figures bears similar relationship to 'c'. Find this out and indicate it as per the "Instructions".

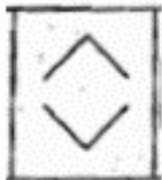


1. 
2.  (Ans.)

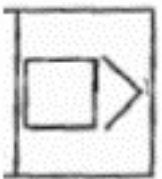
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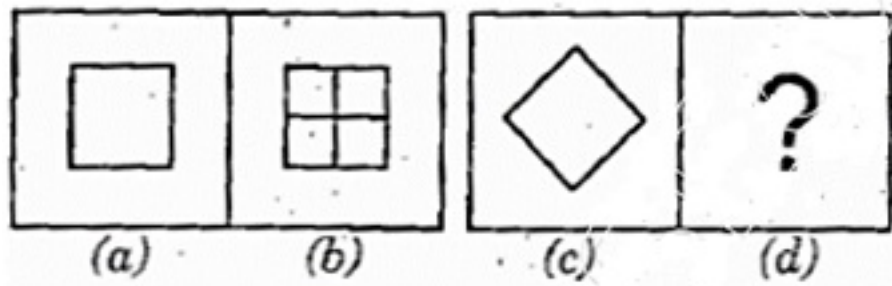
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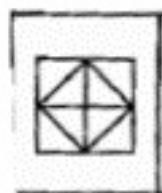
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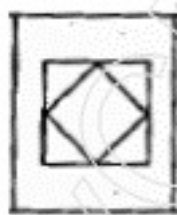
43.



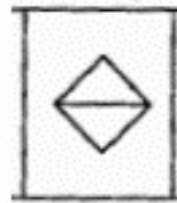
1.



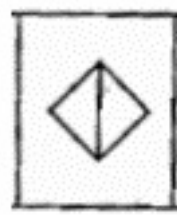
2.



3.



4.

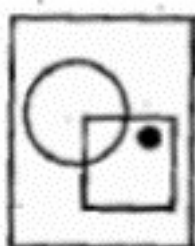


5. (Ans.)

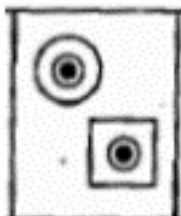


Directions: Questions (44 to 46) : In these questions, there are five figures. Four of them are similar with some common characteristic underlying them. Find out the figure that does not belong to the group. Indicate your answer as per the "Instructions".

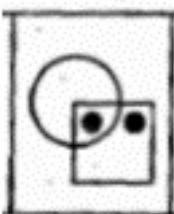
44. 1.



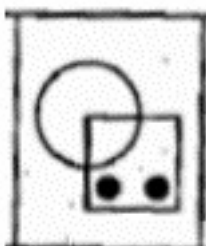
2. (Ans.)



3.



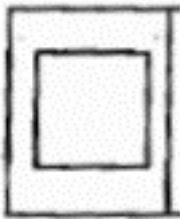
4.



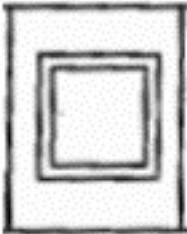
5.



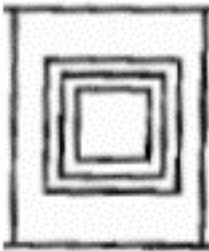
45. 1.



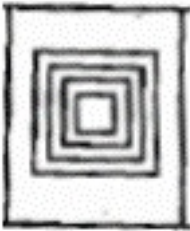
2.



3.



4.

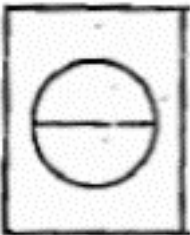


5.



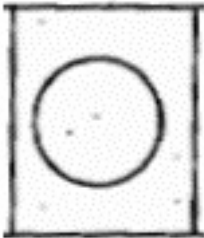


(Ans.)

46. 1.

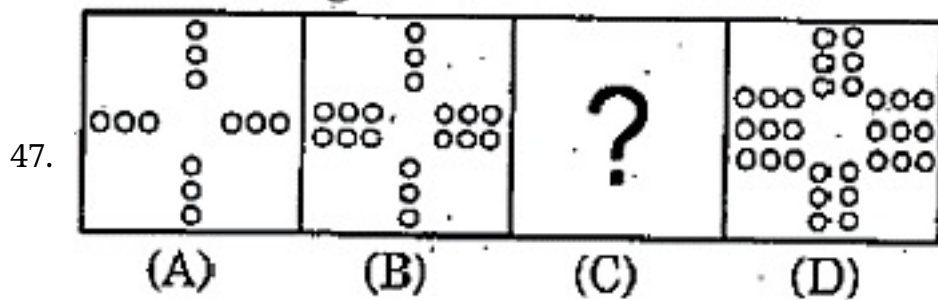


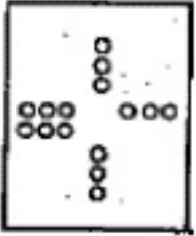
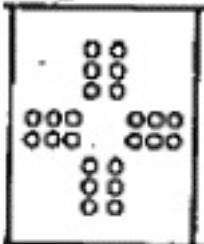
2.



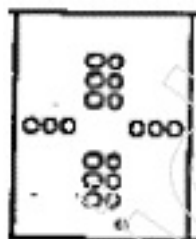
3.  (Ans.)
4. 
5. 

Directions: Questions (47 to 50) : In these questions, there are four problem figures 'A', 'B', 'C' and 'D'. One of them is, however, missing. You have to select one figure from the five answer figures, (1), (2), (3), (4) and (5) such that the series is completed. Indicate your answer as per the "Instructions".

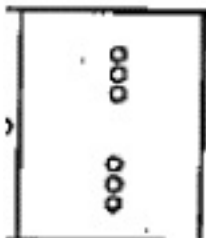


1. 
2.  (Ans.)

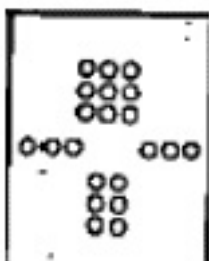
3.



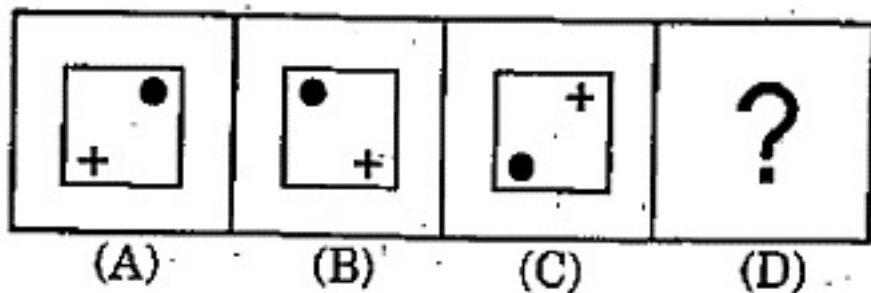
4.



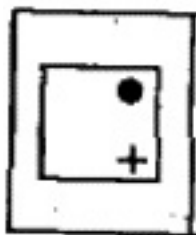
5.



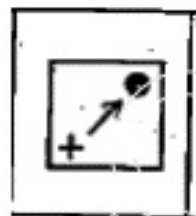
48.



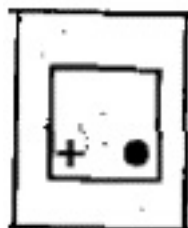
1.



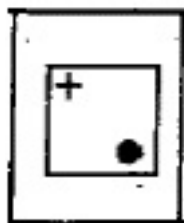
2.



3.

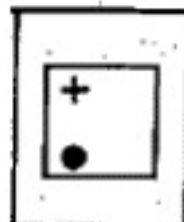


4.

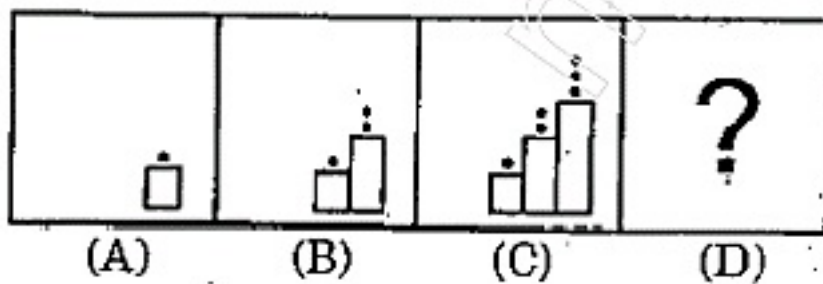


(Ans.)

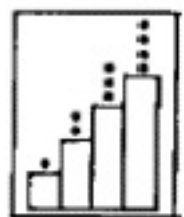
5.



49.

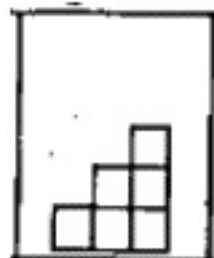


1.

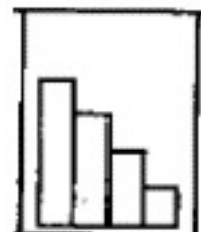


(Ans.)

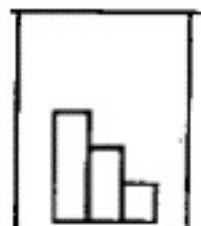
2.



3.



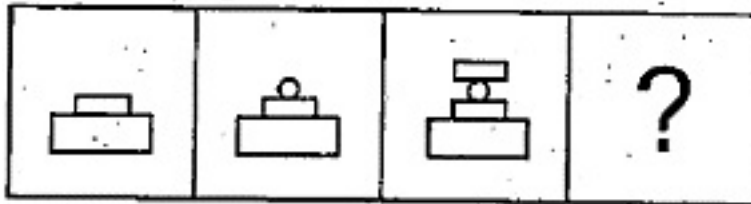
4.



5.



50.



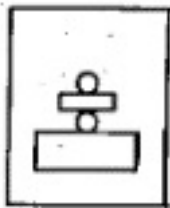
(A)

(B)

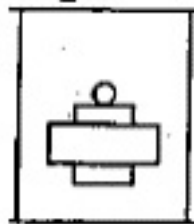
(C)

(D)

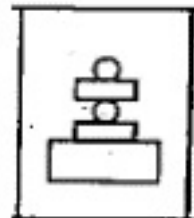
1.



2.

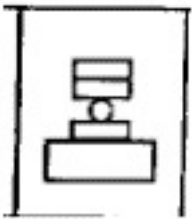


3.



(Ans.)

4.



5.

