

NTSE Practice Paper -01
Scholastic Aptitude Test (Mental Ability Test)

Directions Questions (1 to 6): In the number series given below, one number is missing. Each series is followed by five alternative answers, (1), (2), (3), (4) and (5). One of them is the right answer. Identify and indicate it as per the "Instructions".

1. 4, 13, 31, 58,
 1. 90
 2. 85
 3. 49
 4. 40
 5. 94 **(Ans.)**
2. 90, 81, 74, 69,
 1. 64
 2. 66 **(Ans.)**
 3. 65
 4. 78
 5. 72
3. 785, 664, 543, 422, ...
 1. 301 **(Ans.)**
 2. 201
 3. 101
 4. 300
 5. 303
4. 1875, ..., 75, 15, 3
 1. 370
 2. 275
 3. 380
 4. 375 **(Ans.)**
 5. 365
5. 3, 6, 24, 192,
 1. 2972

2. 576
3. 3072 **(Ans.)**
4. 1536
5. 1152
6. 365, 345, 320, 290,
 1. 300
 2. 245
 3. 255 **(Ans.)**
 4. 260
 5. 265

Questions (7 to 10) are based on letter analogy. There are two pairs of letter combinations in each question. The first (left 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 answer as per the "Instructions".

7. PBL : NDJ :: VCR :?
 1. SEP
 2. SEO
 3. SEN
 4. SFO **(Ans.)**
 5. SFN
8. ACEG : BDEF :: JLNP :?
 1. KLNO
 2. KMNP
 3. LMNP
 4. LMNO
 5. KMNO **(Ans.)**
9. SRCA : ONDB :: TSGE :?
 1. POHF **(Ans.)**
 2. POFH
 3. POGH
 4. POHG

5. OPHF
10. ABCDE : CDEAB :: RSTUV : ?
1. TUVSR
 2. SRTUV
 3. RTUVS
 4. TUVRS **(Ans.)**
 5. STUVR

Questions (11 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 from the alternatives to fill the gaps.

11. ACFH, BDGI, CEHJ,
1. DEIK
 2. DFIK **(Ans.)**
 3. DFJK
 4. DEJK
 5. DEHJ
12. UABP, TBCO, SCDN,
1. RDEN
 2. RDEO
 3. RDEM **(Ans.)**
 4. RDFM
 5. REGM
13. YXV, BCE, UTR, ...
1. FGI **(Ans.)**
 2. FGH
 3. FHI
 4. EGI
 5. FGJ
14. LMNOP, MNOPL, NOPLM,
1. PLMNO
 2. PONLM
 3. ONMLP

4. NMLOP
5. OPLMN (**Ans.**)

Questions (15 to 20): In each of the following questions, five words are given. Four of them are alike in some way. One is different from them. Identify and indicate it as per the "Instructions".

15.
 1. Korea
 2. China
 3. Thailand
 4. Finland (**Ans.**)
 5. Bangladesh
16.
 1. Leopard (**Ans.**)
 2. Elephant
 3. Tiger
 4. Cheetah
 5. Lion
17.
 1. Moon (**Ans.**)
 2. Earth
 3. Saturn
 4. Neptune
 5. Venus
18.
 1. Portuguese
 2. Romanian
 3. Italian
 4. Russian
 5. Pali (**Ans.**)
19.
 1. Srinivasa Ramanujan
 2. Sir C.V. Raman
 3. U.R. Anantha Murthy (**Ans.**)
 4. U.R. Rao
 5. M.S. Swanminathan
20.
 1. Coimbatore
 2. Shimoga

3. Patiala
4. Ranchi **(Ans.)**
5. Kozhikode

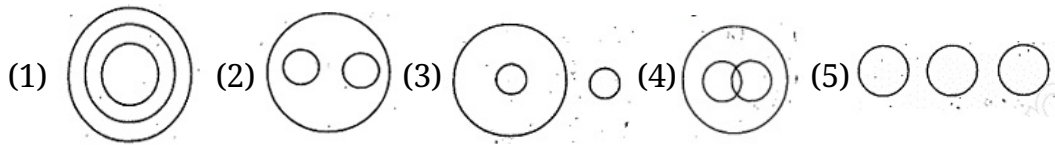
Questions (21 to 25) : In these questions there is a certain relationship between two words on one side of ::, and only one word is given on the other side of ::. The missing word is to be found out from the given alternatives (1), (2), (3), (4) and (5) so that the relationship is the same as for the other pair. Identify the correct answer and indicate it as per "Instructions".

21. Rome : Italy :: Helsinki :?
 1. Sweden
 2. Finland **(Ans.)**
 3. Latvia
 4. Estonia
 5. Denmark
22. Godaan : Munshi Premchand :: Anandamath :?
 1. K. M. Munshi
 2. Lokmanya Tilak
 3. Bankim Chandra Chatterjee **(Ans.)**
 4. Sitakant Mahapatra
 5. Tripuraneni Gopichand
23. Theory of evolution : Darwin :: Crescograph :?
 1. S.S. Bhatnagar
 2. Raja Ramanna
 3. Srinivasa Ramanujan
 4. C.R. Rao
 5. Jagadish Chandra Bose **(Ans.)**
24. Jaipur : Rajasthan : : Dehradun :?
 1. Jharkhand
 2. Chattisgarh
 3. Meghalaya
 4. Manipur
 5. Uttarakhand **(Ans.)**

25. Rahul Bajaj : Business :: Chandrasekhar Azad : ?

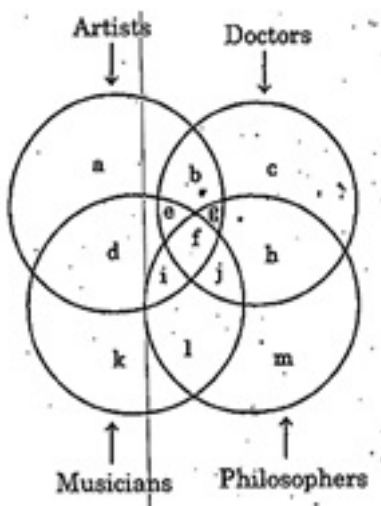
1. Freedom Struggle (Ans.)
2. Literature
3. Social Reforms
4. Music
5. Theatre

Questions (26 to 30) are based on the following diagrams. Study them carefully and indicate correct answer as per "Instructions"



26. Snakes, Cobra, Vipers
27. Elephants, Camel, Cows
28. Kilogram, Centigram, Milligram
29. Apple, Fruits, Potato
30. Musicians, Pianist, Guitarist

Questions (31 to 35) : 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".



31. Doctors who are also Artists and Philosophers are indicated by the letter.

1. h
2. e

3. f

4. b

5. g **(Ans.)**

32. Which letter indicates Philosophers who are also Musicians and Artists?

1. f

2. i **(Ans.)**

3. e

4. g

5. l

33. Which letter indicates Philosophers who are also Doctors, Artists and Musicians?

1. g

2. j

3. e

4. f **(Ans.)**

5. i

34. Which letter indicates Philosopher Doctors who are neither Musicians nor Artists?

1. h **(Ans.)**

2. j

3. l

4. f

5. b

35. Which letter indicates Doctors who are also Philosophers and Musicians?

1. f

2. g

3. j **(Ans.)**

4. l

5. i

Questions (36 to 40) : If HEART is coded as 12345 and DISK is coded as 6789 respectively. How are the following words coded? Identify the right answer and indicate it as per the "Instructions."

36. HASTE

1. 13852 **(Ans.)**

2. 13942

3. 13952

4. 13752

5. 13762

37. KARARTE

1. 934351

2. 934342

3. 933452

4. 914152

5. 934352 (Ans.)

38. RISK

1. 4879

2. 4789 (Ans.)

3. 4798

4. 4869

5. 4779

Questions (39 to 42): are based on simple arithmetic principles. Find the right answer from among the alternatives and indicate it as per the "Instructions".

39. 159 % = 15900

1. 10.0

2. 1.0

3. 0.001

4. 0.01 (Ans.)

5. 0.1

40. (65 % 100) x 7

1. 4.55 (Ans.)

2. 4.05

3. 4.5

4. 4.65

5. 4.75

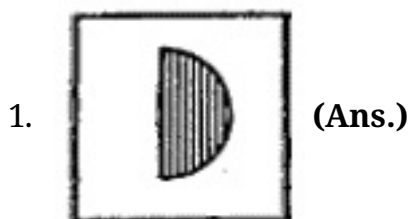
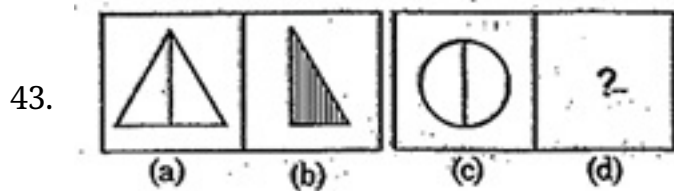
41.
$$\frac{40 + (6 \times .04)}{8}$$

1. 0.503
2. 5.3
3. 5.003
4. 5.13
5. 5.03 (Ans.)

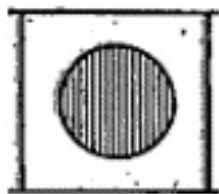
42. $\frac{5x+2.15}{3} = 4x+60x = ?$

1. 3
2. 4
3. 5 (Ans.)
4. 2
5. 0.5

Questions (43 to 46) : Each question has four problem figure (a), (b), (c), (d). Figure (d) has only a question mark '?'. Figure (b) bears a certain relationship to (a). One of the answer figures bears similar relationship to (c). Find this out and indicate it as per the "Instructions".



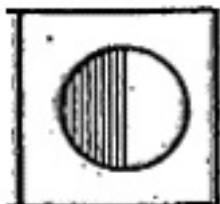
3.



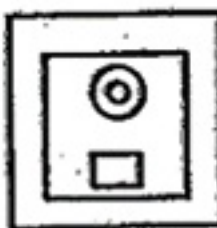
4.



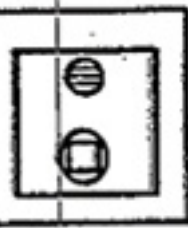
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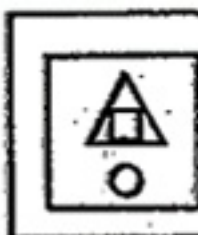
44.



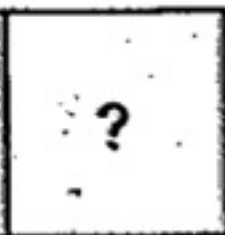
(a)



(b)



(c)

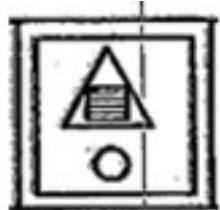


(d)

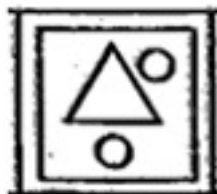
1.



2.



3.



4.

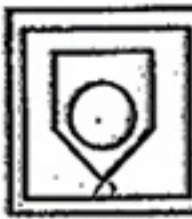


(Ans.)

5.



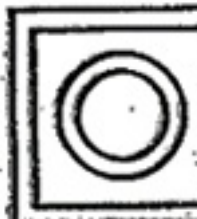
45.



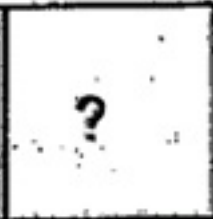
(a)



(b)



(c)



(d)

1.



2.

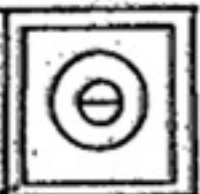


3.



(Ans.)

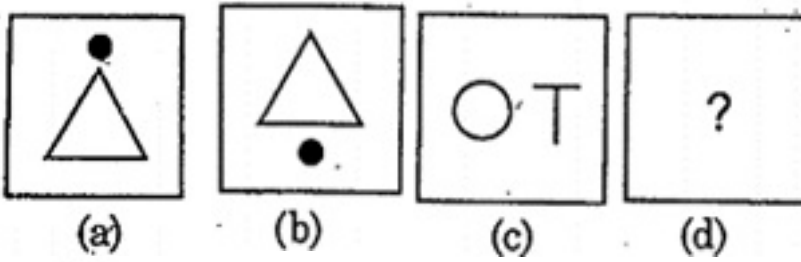
4.



5.



46.



1.



2.



(Ans.)

3.



4.

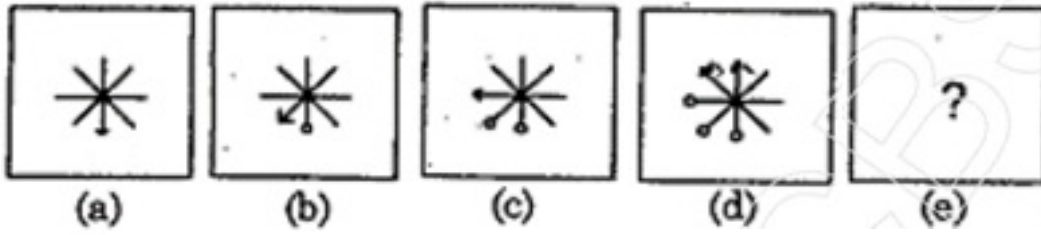


5.



Questions (47 to 50) : In these questions there are five problem figures (a), (b), (c), (d) and (e). figure (e) has a question mark '?' Select one figure from answer figures (1), (2), (3), (4) and (5) such that the series is completed. Indicate your answer as per the "Instructions".

47.



1.



2.



3.

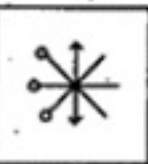


4.

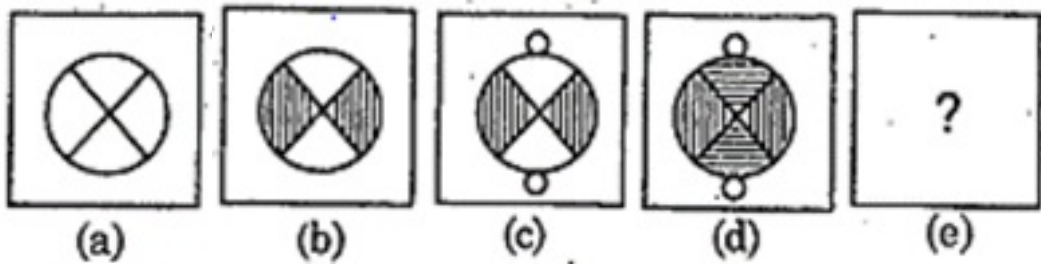


(Ans.)

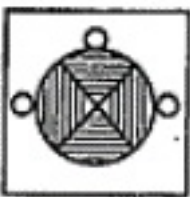
5.



48.



1.

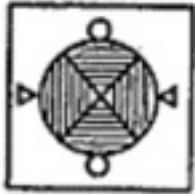


2.



(Ans.)

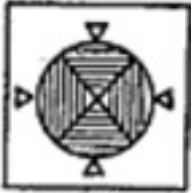
3.



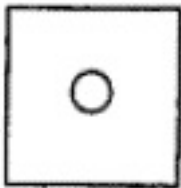
4.



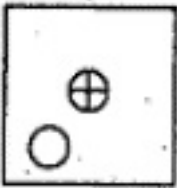
5.



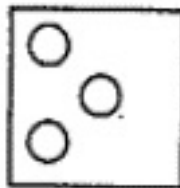
49.



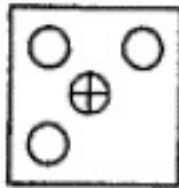
(a)



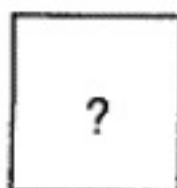
(b)



(c)

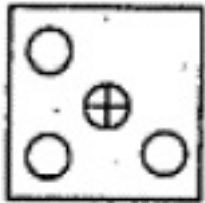


(d)

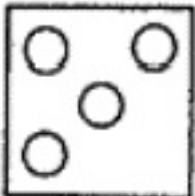


(e)

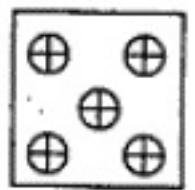
1.



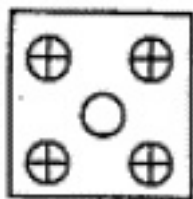
2.



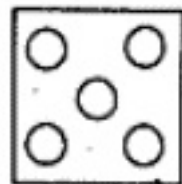
3.



4.

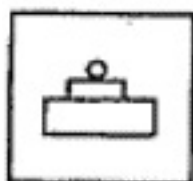


5.

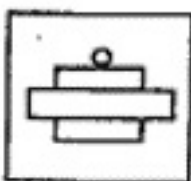


(Ans.)

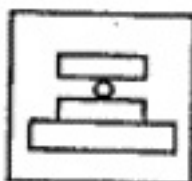
50.



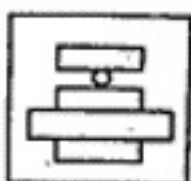
(a)



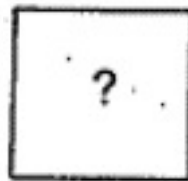
(b)



(c)

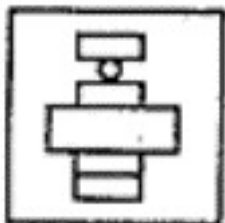


(d)

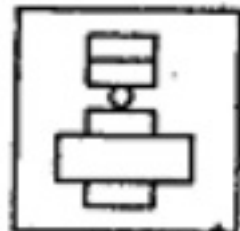


(e)

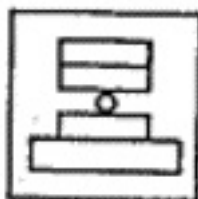
1.



2.

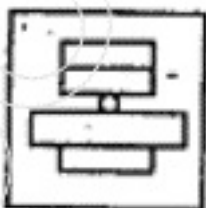


3.



(Ans.)

4.



5.

