

NTSE

NTSE Stage – II Sample Paper - MAT



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Directions (1-3): Find out the next number in place of question mark (?) in the following number series.

- 1, 8, 21, 42, 73, 116, ?
(a) 173 (b) 177 (c) 181 (d) 184
- 15, 96, 160, 209, 245, ?
(a) 295 (b) 286 (c) 278 (d) 270
- 8.4, 16, 25.8, 37.8, 52, 68.4, ?
(a) 82.8 (b) 84 (c) 87 (d) 89.2

Directions (4-5): In each of the following letter series, some of the letters are missing which are given in that order as one of the alternative below it. Choose the correct alternative.

- __c__bd__cbcd__a__db__a
(a) adabcd (b) cdbbca (c) daabbc (d) bdbcba
- aa__cb__ae__b__ae__b
(a) cacca (b) eacaa (c) aceac (d) eacac
- If each of the letter in the English alphabet is assigned odd numerical value beginning coding A = 1, B = 3 and so on, what be the total value of the letter of the word 'SNAKE' ?
(a) 95 (b) 105 (c) 115 (d) 113
- If 'BARS' = 10 and "BEERT" = 10, "DEEZ" will be?
(a) 12 (b) 15 (c) 14 (d) 10
- If 'PEN' = 32, 'PAPER' = 51, then 'DESK' = ?
(a) 35 (b) 40 (c) 80 (d) 10
- If 'GOD' is coded as '6 - 8 - 14 - 16 - 3 - 5', then how will 'BEN' be coded?
(a) 1 - 3 - 4 - 6 - 13 - 15
(b) 1 - 2 - 4 - 6 - 13 - 15
(c) 1 - 3 - 4 - 5 - 13 - 15
(d) 1 - 3 - 4 - 6 - 14 - 25

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10. Veerchand was born on 22nd March 1982. On what day of the week was he 14 years 7 months and 8 days of age?
(a) Tuesday (b) Monday (c) Sunday (d) Wednesday
11. Shailendra takes casual leave only on first working day of every month. The office has weekly offs on Saturday and Sunday. In a month of 30 days, the first working day happened to be Tuesday. What will be the day for his next causal leave?
(a) Wednesday (b) Thursday (c) Friday (d) Monday
12. A man has a job which require to works 8 straight days and rest on the ninth day. If he started work on a Monday, the 12th time he rests will be on what day of the week?
(a) Sunday (b) Friday (c) Saturday (d) Wednesday
13. A day after tomorrow will be X-mas day. What will be the day on New Year day if today is Monday?
(a) Sunday (b) Thursday (c) Wednesday (d) Monday
14. The director came to the office to attend a meeting at 15 minutes past 12 and he came 25 minutes before his steno who in turn was late by 30 minutes to the meeting. At what times was the meeting supposed to start?
(a) 12 (b) 12 : 15 (c) 12 : 10 (d) 12 : 25
15. Ruchi's watch, which gains uniformly, is 2 minutes slow at noon on Sunday and is 4 minutes 48 seconds fast at 2 pm the following Sunday. When was it correct?
(a) 3 pm on Tuesday (b) 2 pm on Tuesday
(c) 2 pm on Wednesday (d) 3 pm on Wednesday
- Director (16-20):** Study the following information carefully and answer the questions given below. P, Q, R, S, T, V, W and Z are going to three destinations Delhi, Chennai and Hyderabad in three different vehicles – Honda City, Swift D'Zire and Ford Ikon. There are three females among them-one in each car. There are at least two persons in each car.
R is not travelling with Q and W. T, a male, is traveling with only Z and they are not going to Chennai. P is travelling in Honda City and is going to Hyderabad. S is the sister of P and is travelling by Ford Ikon. V and R are travelling together. W is not going to Chennai.
16. Members of which of the following cars are going to Chennai?
(a) Honda City (b) Swift D' Zire
(c) Ford Ikon (d) Either Swift D' Zire of Ford Ikon
17. In which car are four members travelling?
(a) None (b) Honda City (c) Swift D' Zire (d) Ford Ikon

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M. Pareek

An
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Mukesh Pareek



18. Which of the following combinations represent the three female members?
(a) QSZ (b) WSZ (c) PSZ (d) Cannot be determined
19. Who is travelling with W?
(a) Only Q (b) Only P (c) Both P and Q (d) Cannot be determined
20. Members of which of the following combinations are travelling in Honda City?
(a) PRS (b) PQW (c) PWS (d) Data inadequate

Direction (Q. 21 to 24): These questions are based on the following data.

In a college library, four different business newspapers – Economic times, Business Standard, Business Line and Financial Express are available. All students visit the library regularly but 20% of them do not read any business newspaper.

The four newspapers given in the above order are read by 230, 180, 180 and 220 students respectively. The number of students reading exactly 2 newspapers for any two newspapers is 20. There are 30 students who read all the four newspapers but there is nobody who reads exactly three out of the four newspapers.

21. How many students read exactly two newspapers?
(a) 120 (b) 150 (c) 80 (d) 90
22. How many students read exactly one newspaper?
(a) 600 (b) 450 (c) 750 (d) 350
23. How many students do not read any newspaper?
(a) 75 (b) 100 (c) 225 (d) 150
24. What percentage of the people reading Business Standard also read at least one other newspaper?
(a) 35% (b) 55% (c) 50% (d) 65%
25. If all the students in the college including those who do not read any newspaper read at least one newspaper, (out of the newspaper above) which he is not reading at present, then what is the least number of students reading all the four newspapers?
(a) 60 (b) 25 (c) 15 (d) 30

Directions (26-28): In each question below are given statements followed by three of four conclusions. You have to take the two given statements to be true even if they seem to be at variance with commonly known facts and then decide which of the given conclusions logically follows from the given statements, disregarding commonly known facts.

26. **Statement:**
- I. All parrots are pigeons
 - II. Some crows are pigeons
 - III. Some sparrows are crows
 - IV. All sparrows are koels

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- Conclusion:**
- I. Some koels are crows
 - II. Some parrots are crows
 - III. Some sparrows are pigeons
 - IV. No crow is parrot
- (a) Only I follow (b) Only III follows
(c) Only I and either II or IV follows (d) None of these

27. **Statement:**
- I. All bulbs are wires
 - II. No wire is cable
 - III. Some cables are brushes
 - IV. All brushes are paints
- Conclusion:**
- I. Some paints are cables
 - II. Some wires are bulbs
 - III. Some brushes are wires
 - IV. Some cables are bulbs
- (a) Only I follows (b) Only I and II follow (c) Only III follow (d) Only IV follows

28. **Statement:**
- I. Some toys are pens.
 - II. Some pens are papers.
 - III. Some papers are black.
- Conclusion:**
- I. Some toys are black.
 - II. No pen is black.
 - III. No toy is black.
 - IV. Some pens are black.
- (a) None of these (b) Either II or IV only
(c) Either I or III and either II or IV (d) Either I or IV

Direction (Q. 29 to 33): Read the following information carefully and answer the questions below:

A family consists of six members P, Q, R, S, T and U. There are two married couples. Q is a doctor and the father of T. U is Grandfather of R and is a contractor. S is grandmother of T and is a housewife. There is one doctor, one contractor, one nurse, one housewife and two students in the family.

29. Who is the husband of P?
(a) R (b) U (c) Q (d) S
30. Who is the sister of T?
(a) R (b) U (c) T (d) Information insufficient
31. What is the profession of P?
(a) Doctor (b) Nurse (c) Doctor or Nurse (d) Housewife

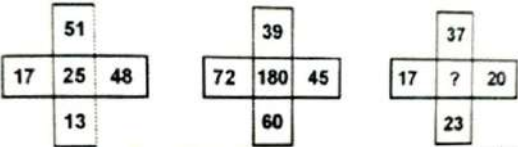
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32. Which of the following are two married couples?
 (a) US, QT (b) US, QP (c) TS, RU (d) US, RP
33. Which of the following is definitely a group of male members?
 (a) QU (b) QUT (c) QUP (d) UT

Direction (Q 34-37): In each of the following questions, a set of figures carrying certain characters is given. Assuming that the characters in each set follow a similar pattern, find the missing character in each case.

34.  (a) 12 (b) 7 (c) 16 (d) 14

35.  (a) 315 (b) 325 (c) 980 (d) 216

36.

28	60	48
5	6	7
14	39	27
7	?	16

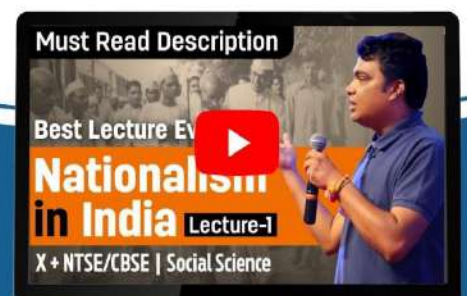
 (a) 18 (b) 23 (c) 24 (d) 27

37.

7B	5C	6B
3C	9B	19A
15A	17A	?

 (a) 10C (b) 12C (c) 14B (d) 16C

38. In the given question, there is some relationship according to some rule between the letters and numerals given in each row. Find the rule in each case and then choose the correct alternative from among the four alternatives given under it satisfying the same rule to fill in the vacant places in the third row.
- | | | | |
|----|---|----|----|
| GM | 9 | 0 | KT |
| PS | 0 | 50 | UY |
| DI | ? | ? | CP |
- (a) 4, 10 (b) 9, 5 (c) 18, 32 (d) 32, 18



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Direction (Q 39. 42): Answer the question based on the following information.

Madhuri had four daughters: A, B, C and D. One day, when the girls were at their school, Madhuri received four gift parcels. Madhuri opened the four parcels. The parcels were addressed to one each of her daughter. Each parcel had a few one-rupee coins inside. In the evening she told her daughters about the parcels and added, “you have totally received Rs. 20 – all in one rupees coins. None of you has received less than Rs. 2. A has got the maximum and D has the least. B has got exactly Re. 1 more than C. “Madhuri asked B who always arrived at the most logical and correct answer to look into her own parcel only and said how many coins each of the others had received. B looked into her parcel only and said that, it was not possible to given the required answer. Madhuri then said that D had received an even number of coins. With this information B gave the correct answers.

39. The number of coins received by A was
(a) 10 (b) 9 (c) 8 (d) 7
40. Then number of coins received by B was
(a) 5 (b) 6 (c) 7 (d) 8
41. The number of coins received by C was
(a) 3 (b) 4 (c) 5 (d) 6
42. The number of coins received by D was
(a) 2 (b) 4 (c) 6 (d) 7

Direction (Q.43 – 47): Each problem contains a question and two statements labeled I and II giving certain data. You have to select the correct answer from (A) to (D) depending on the sufficiency of the data given in the statements to answer to question. Mark your answer as

- (A) If the question can be answered by using one of the statements alone but cannot be answered by using the other statement alone.
- (B) If the question can be answered by using either statement alone.
- (C) If the question can be answered by using both statements together but cannot be answered by using either statement alone.
- (D) If the question cannot be answered even by using both the statement together.
43. Amar takes twice the time taken by Banu to complete a job. Banu takes twice the time taken by Chetan to complete it. Chetan takes twice the time taken by Dinesh to complete it. Two of the four take x times the time taken by the other two to complete it. Find x if $x < 1$.
- I. $x \leq \frac{3}{5}$ II. $x \geq \frac{3}{5}$
- (a) A (b) B (c) C (d) D

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44. Ram and Shyam take 6 days to complete a work. Is Shyam the most efficient among Ram, shyam and tarun?
- I. Ram and Tarun take $3\frac{1}{3}$ days to complete it.
- II. Shyam and Tarun take $3\frac{3}{4}$ days to complete it.
- (a) A (b) B (c) C (d) D
45. N taps are fitted to a tank. The rate at which the i^{th} tap (where $N \geq i \geq 3$) fills the tank is the sum of the rates at which all the taps numbered below it fill the tank. Find the rate at which the 10^{th} tap
- I. The difference in the filling rates of ninth and eight taps is 160 litres/hr.
- II. The seventh tap fills at the rate of 80 litres/hr.
- (a) A (b) B (c) C (d) D
46. Is Chaitanya 5 year old boy?
- I. Kranthi, the son of Narayan is 10 year old and his sibling, Chaitanya is half of his age.
- II. Narayan's age is twice the sum of the ages of his only son and only daughter.
- (a) A (b) B (c) C (d) D
47. How is Madhu related to Phani?
- I. Phani's brother's father-in-law's only daughter's brother-in-law is Madhu.
- II. Phani's brother's father son is Madhu.
- (a) A (b) B (c) C (d) D

Directions (Q 48 to 52.): Study the following information carefully and answer questions given below. A word and number arrangement mechanize when given an input line of words and numbers rearranges then following a particular rule in each step. The following is an illustration of input and various steps of rearrangement.

Input: 11 day 34 night 93 pace 27 east 44 joy

Step I: 93 11 day 34 night pace 27 easy 44 joy

Step II: 93 11 34 night pace 27 easy 44 joy day

Step III: 93 44 11 34 night pace 27 easy joy day

Step IV: 93 44 11 34 night pace 27 joy day easy

Step V: 99 44 34 11 night pace 27 joy day easy

Step VI: 93 44 34 11 night pace 27 day easy joy

Step VII: 93 44 34 27 11 night pace day easy joy

Step VIII: 93 44 34 27 11 pace day easy joy night

Step IX: 93 44 34 27 11 day easy joy night pace

And Step IX is the last step of the rearrangement as the desired arrangement is obtained. As per rules followed in the above steps, find out in each of the questions the appropriate step for the given input.

Input: class 25 war 15 race 73 heap 58 just 88 take 38.

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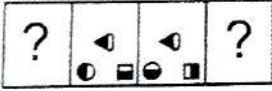
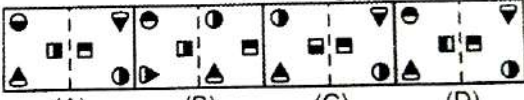
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48. What is the position of 'war' Step VII?
 (a) Seventh from the left end (b) Eighth from the right end
 (c) Fifth from the left end (d) Sixth from the left end
49. Which of the following ninth from the right in Step VI?
 (a) race (b) 25 (c) war (d) 58
50. What is the position of '15' in Step IX?
 (a) Seventh from the left end (b) Eighth from the left end
 (c) Fifth from the right end (d) Seventh from the right end
51. How many steps are required to complete this arrangement?
 (a) Eleven (b) Twelve (c) Ten (d) Nine
52. Which of the following represent Step X?
 (a) 88 73 58 38 25 war 15 race take class heap just
 (b) 88 73 58 38 25 15 class heap just race take war
 (c) 88 73 58 38 25 15 war class heap just race take
 (d) 88 73 58 38 25 15 war take class heap just race

53. The problem figure has two blanks in it in place of the first and the fourth figures. The answer figure contains four pairs of figures numbered as 1, 2, 3, and 4 respectively. You have to choose the pair, which would fill in the blanks so that the first and second pairs have similar relationship.

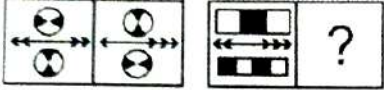

Problem Figures **Answer Figures**

(a) A (b) B (c) C (d) D

Directions (Q. 54 to 56): The second figure in the first unit of the problem figures bears a certain relationship to the first figure. Similarly, one of the figures in the answer figures bears the same relationship to the first figure in the second unit of the problem figures. You are therefore to locate the figure which would replace the question mark.

54. **Problem Figures** **Answer Figures**

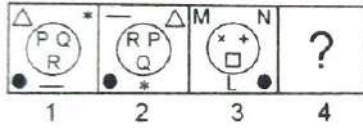



(a) A (b) B
 (c) C (d) D

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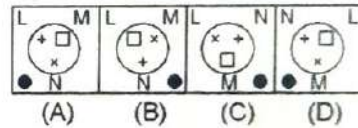


55. Problem Figures



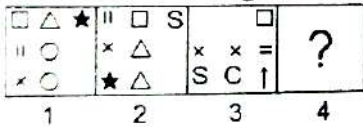
- (a) A (b) B

Answer Figures



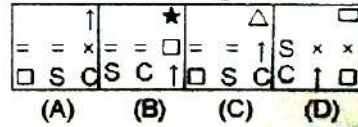
- (c) C (d) D

56. Problem Figures



- (a) A (b) B

Answer Figures



- (c) C (d) D

Direction: (Q.57 to 60): These questions are based on the following data:

Three different faces of a cube are painted in three different colour – red, green and blue. This cube is now cut in to 216 smaller but identical cubes.

- 57.** What is the least number of the smaller cubes that will have exactly three faces painted?
(a) 1 (b) 6 (c) 2 (d) None of these
- 58.** How many of the smaller cubes have exactly two faces painted?
(a) 12 (b) 15 (c) 16 (d) Either (a) or (b)
- 59.** What are the least and the largest number of small cubes that have exactly one face painted?
(a) 75 and 86 (b) 64 and 81 (c) 64 and 72 (d) 75 and 84
- 60.** What is the maximum number of small cubes that have once face painted green and one face blue and no other face painted?
(a) 2 (b) 4 (c) 6 (d) 8
- 61.** If a cube is to be painted with Red and Blue colour in such a way that each face should get exactly one colour then in how many ways this cube can be painted?
(a) 2 (b) 6 (c) 12 (d) 10
- 62.** What is the minimum number of different colours required to paint the given figure such that no two adjacent regions have the same colour?

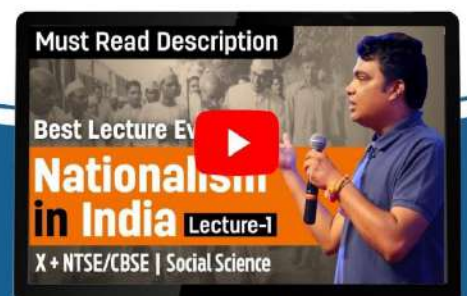


- (a) 3 (b) 4 (c) 5 (d) 6

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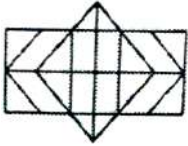


63. Count the number of square in the given figure.



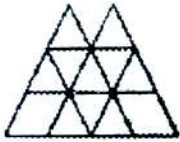
- (a) 22 (b) 20 (c) 18 (d) 14

64. Determine the number of rectangles and hexagons in the given figure.



- (a) 30, 5 (b) 32, 3 (c) 28, 5 (d) 30, 3

65. Count the number of parallelogram in the given figure?



- (a) 23 (b) 23 (c) 21 (d)

66. Baniya sells two types of tea viz. Desi Chai. He sells Desi Chai at Rs. 18 per kg and incurs a loss of 10% whereas on selling the Videshi Chai at Rs. 30 per kg, he gains 20%. In what proportion should the Desi Chai and Videshi Chai be mixed such that he can gain a profit of 25% by selling the mixture at Rs. 27.5 per kg?

- (a) 3 : 2 (b) 2 : 3 (c) 2 : 5 (d) 3 : 5

67. Sohanlal has two jars. Jar A is completely filled with milk and another jar B is totally empty. Before selling the milk in a town he transferred some milk, into the empty jar B then he fills the jar A with water. Once again he transferred the mixture of milk from A B so that B is completely filled. Which one of the following is correct?

- (a) Concentration of milk in B cannot be less than 75%
(b) Concentration of milk in B cannot be greater than 75%
(c) Concentration of milk is always 75%
(d) None of the above

68. How much water must be added to 60 litres of milk at $1\frac{1}{2}$ litres for Rs. 20 so as to have a mixture worth Rs.

$10\frac{2}{3}$ a litre?

- (a) 20 litres (b) 25 litres (c) 15 litres (d) 30 litres

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Direction (Q 69-70): there are 25 points on a plane of which 7 are collinear. Now solve the following:

69. How many 7-digit numbers are there having the digit 3 three times and the digit 0 four times?
 (a) 15 (b) $3^3 \times 4^4$ (c) 18 (d) None of these
70. Several teams take part in a competition, each of which must play one game with all the other teams. How many teams took part in the competition if they played 45 games in all?
 (a) 5 (b) 10 (c) 15 (d) 20
71. A husband and a wife appear in an interview for two vacancies for the same post. The probability of husband's selection is $(1/7)$ and that of the wife's selection is $1/5$. What is the probability that at least one of them will be selected?
 (a) $\frac{12}{35}$ (b) $\frac{11}{35}$ (c) $\frac{16}{35}$ (d) $\frac{1}{5}$
72. In a class 45% students read English, 30% read French and 20% read both English and French, One student is selected at random. Find the probability that he reads English, if it is known that he read French.
 (a) $\frac{1}{3}$ (b) $\frac{2}{3}$ (c) $\frac{5}{6}$ (d) None of these

Directions (Q. 73 to 75): In each of the following questions various term of an alphabet series are given with one or more terms missing as shown by (?). Choose the missing terms out of the given alternatives.

73. AZY, BUT, CXW, DWV, ?
 (a) EVA (b) EVU (c) VUE (d) VEU
74. A2C, D7D, 122E, P67F, ?
 (a) Y202G (b) Y201G (c) Z201G (d) Z202G
75. Consider the following series:
 ABCD.....WXYZ/YX.....BA/BCD.....XYZ/YX.....CBA/BC.....YZ..... . Which letter occupies the 1000th position in the above series?
 (a) Y (b) X (c) C (d) B

Direction (Q .76 to 80): Study the following information to answer the given questions.

In a certain code language, 'right might wrote after' is written as 'ta pa lo me' 'wrote type every said' is written as 'lo ba ne ka'. 'What right said over' is written as 'me sa ba je', 'might till huge right' is written as 'ta me na ze', 'till made said what' is written as 'na ya sa ba'.

76. Which of the following is the code for 'type every'?
 (a) ko lo (b) ne sa (c) ne ka (d) ne je

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77. What is the code for 'after'?
- (a) me (b) pa (c) sa (d) ka
78. Which of the following is the code for 'over after made huge'?
- (a) je pa ya me (b) je pa ta ze (c) ne ja pa ka (d) je pa ya ze
79. Which of the following is the code for 'right what'?
- (a) me sa (b) sa ba (c) me je (d) je ne
80. 'Wrote right after' will be coded as which of the following?
- (a) ta ne ba (b) lo me pa (c) pa ta ne (d) me ta ze
81. How many leap years are there in 1st consecutive 700 years?
- (a) 175 (b) 174 (c) 170 (d) 169
82. The last day of century cannot be
- (a) Monday (b) Wednesday (c) Tuesday (d) Friday
83. How many odd days are there in 300 days?
- (a) 4 (b) 3 (c) 6 (d) 2
84. A watch which gains uniformly is 4 minutes slow at 7 pm on Monday and is 4 minutes 18 second fast at 7 pm on following Monday. When was the correct?
- (a) 2 am on Friday (b) 3 am on Friday (c) 1 am on Friday (d) 4 am on Friday
85. The priest told the devotee. 'The temple bell is rung at regular intervals of 45 minutes. The last bell was rung 5 minutes ago. The next bell is due to the rung at 7 : 45 am'. At what time did the priest given this information to the devotee?
- (a) 6 : 50 am (b) 6 : 55 am (c) 6 : 15 am (d) 7 : 05 am

Direction (Q. 86 to 90): Study the following information carefully and answer the given questions. Representatives of eight different banks, viz A, B, C, D, E, F, G and H, are sitting around a circular table, facing the centre, but not necessarily in the same order. Each one of them is from a different bank, viz UCO Bak, Oriental Bank of Commerce, Bank of Maharashtra, Canara Bank, Syndicate Bank, Punjab National Bank, Bank of India and Dena Bank. F sits second to the right of the representative of Canara Bank. The representative of Bank of India is an immediate neighbour of the representative of Canara Bank. Two person sit between the representative of Bank of India and B. C and E are immediate neighbors.

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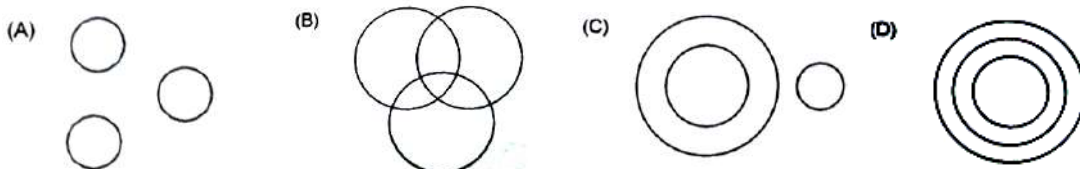
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Neither C nor E is an immediate neighbor of either B or the representative of Canara Bank. The representative of Bank of Maharashtra sits second to the right of D. D is the representative of neither Canara Bank nor Bank of India. G and the representative of UCO Bank are immediate neighbours. B is not the representative of UCO Bank. Only one person sits between C and the representative of Oriental Bank of Commerce. H sits third to the left of the representative of Dena Bank. The representative of Punjab National Bank sits second to the left of the representative of Syndicate Bank.

- 86.** Three of the following four are alike in a certain way based on the given arrangement and thus form a group. Which is the one that does not belong to the group?
- (a) H–UCO Bank (b) A – Canara Bank
(c) D – Bank of Maharashtra (d) E–Syndicate Bank
- 87.** Which of the following is true with respect to the given seating arrangement?
- (a) B is the representative of Bank of Maharashtra.
(b) C sits second to the right of H.
(c) The representative of Dena Bank sits on 2 the immediate left of the representative of UCO Bank.
(d) The representative of Bank of Maharashtra and Syndicate Bank are immediate neighbors.
- 88.** Who among the following sit exactly between B and the representative of Bank of India?
- (a) A and the representative of UCO Bank.
(b) F and G
(c) H and the representative of Bank of Maharashtra
(d) H and G
- 89.** Who among the following is the representative of Oriental Bank of Commerce?
- (a) A (b) C (c) H (d) D
- 90.** Who amongst the following sits second to the left of B?
- (a) C (b) H
(c) The representative of Canara Bank (d) The representative of Punjab national Bank

Direction: (91): In the following question four diagram and three class of elements are given. You have to choose which of the figure will best represent the relationship amongst three classes:



- 91.** Fridge, T.V., Radio
- (a) A (b) B (c) C (d) D

**Success
STORY**

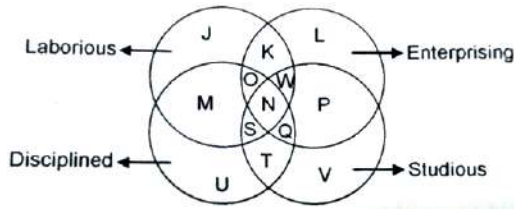
I still wonder how one man has such a deep understanding of an examination. It becomes the truth what ever N/A says about NTSE.

M. Pareek

An
NTSE Scholar
IIT-JEE (Adv.) AIR-3
Mukesh Pareek




Directions (Q. 92 to 95): Below is given a figure with four intersecting circles, each representing a group of persons having the quality written against it. Study the figure carefully and answer the questions that follow 1



92. People who are not laborious, enterprising and disciplined are represented by:
 (a) Q (b) T (c) U (d) V
93. The region which represents people who are not studious, but possess other three qualities, is denoted by:
 (a) M (b) N (c) O (d) W
94. The region which represents the people who are enterprising, studious and disciplined but not laborious is denoted by:
 (a) Q (b) P (c) S (d) T
95. People who are not studious and disciplined but are laborious and enterprising both, are represented by:
 (a) M (b) N (c) P (d) K

Directions (Q. 96 to 100): In each of the following questions, the first two figures are related to each other in a certain way. Find out which figure from the answer figures (A), (B), (C) and (D) should be placed at the question mark (?) so that the second pair so formed will have a similar relationship.

- 96.
- Problem Figures**



(I)

Problem Figure (II): A square with a central point and four lines radiating to the midpoints of the sides.

(II)


?

(III)


Problem Figure (IV): A right-angled triangle with a central point and three lines radiating to the vertices.

(IV)

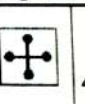
Answer Figures




(A)



(B)



(C)



(D)
- (a) A (b) B (c) C (d) D

- 97.
- Problem Figure (I):** A circle with an inscribed equilateral triangle.

(I)

Problem Figure (II): A circle with an inscribed inverted equilateral triangle.

(II)

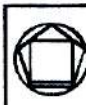
?

(III)


Problem Figure (IV): A circle with an inscribed regular pentagon.

(IV)


Answer Figures




(A)



(B)



(C)



(D)
- (a) A (b) B (c) C (d) D

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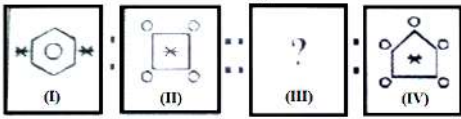
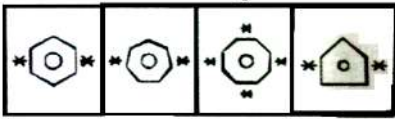
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98.

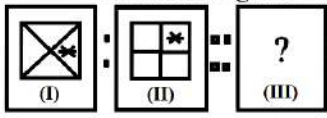
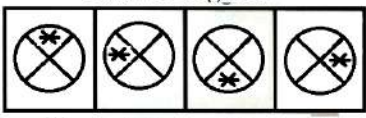
Problem Figures **Answer Figures**

(a) A (b) B (c) C (d) D

99.

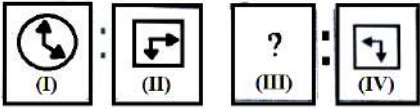
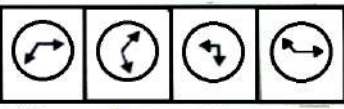
Problem Figures **Answer Figures**

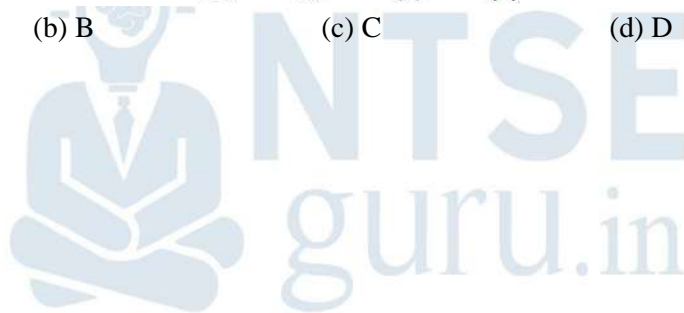
(a) A (b) B (c) C (d) D

100.

Problem Figures **Answer Figures**

(a) A (b) B (c) C (d) D



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ANSWER KEY STAGE – II (MAT)S

1.	2.	3.	4.	5.	6.	7.	8.	9.	10.
a	d	c	a	d	a	d	a	a	c
11.	12.	13.	14.	15.	16.	17.	18.	19.	20.
b	d	c	c	c	c	a	d	c	b
21.	22.	23.	24.	25.	26.	27.	28.	29.	30.
a	b	d	c	d	c	b	c	c	d
31.	32.	33.	34.	35.	36.	37.	38.	39.	40.
b	b	a	b	b	d	d	c	b	a
41.	42.	43.	44.	45.	46.	47.	48.	49.	50.
b	a	a	a	b	c	b	d	b	d
51.	52.	53.	54.	55.	56.	57.	58.	59.	60.
a	c	d	b	b	c	d	d	d	c
61.	62.	63.	64.	65.	66.	67.	68.	69.	70.
d	a	c	a	a	a	a	c	a	b
71.	72.	73.	74.	75.	76.	77.	78.	79.	80.
b	b	b	a	d	c	b	d	a	b
81.	82.	83.	84.	85.	86.	87.	88.	89.	90.
d	c	c	b	d	b	d	c	d	d
91.	92.	93.	94.	95.	96.	97.	98.	99.	100.
a	d	c	a	d	b	c	b	a	a

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