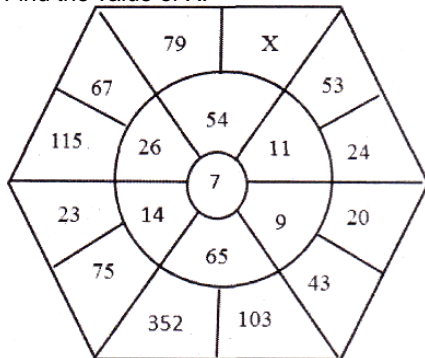


77. Find the value of X.



- (a) 299 (b) 399 (c) 298 (d) 308

(a); The pattern is;
 $7 \times 11 = 77 = 53 + 24$
 $7 \times 9 = 63 = 20 + 43$
 Hence, $7 \times 54 = 378 = x + 79$
 $\therefore x = 378 - 79 = 299$
 Option A

Directions (78 – 81): Based on the information below, answer the questions which follow.

Six friends Albert, Betty, Claire, Daisy, Evan and Fred who are working in different organisations, are looking for a switch in their jobs. They came across an advertisement in the newspaper regarding a job fair being organised in New Delhi. After enrolling for the fair, different days are allotted to each one of them from Monday to Saturday not necessarily in the same order, starting from Monday. They also had to arrange for their stay in different hotels to concentrate well while preparing for the upcoming interviews namely Taj, Hilton, Crowne Plaza, Radisson, Hyatt and Marriott. Additional information provided is as follows:

- I. Albert prefers to stay in Taj but not in Hilton. Albert does not work in Whirlpool and participates in the Job fair on Monday. The person who works in Whirlpool participates in the Job fair on Saturday.
- II. Fred does not stay in Hyatt but works in Himalaya.
- III. Betty and Daisy participate in the Job fair on consecutive days.
- IV. Claire participates in the Job fair on the day before the person staying in Crowne Plaza but on the next day of Pepsi employee.
- V. The person working with Oppo participates in the Job fair on Friday and does not stay in Hilton.
- VI. Claire who is working with Nestle participates in the Job fair at a gap of one day prior to Evan.
- VII. Daisy stays in Marriott and attends the conference on the last day of the week.
- VIII. The person working with Apple stays in Radisson.

78. Which of the following friend is working with Apple?
 (a) Albert (b) Daisy (c) Evan (d) Fred

Solution for 78 – 81: From the given information, we can prepare the following table;

Name	Day	Hotel	Company
Albert	Mon	Taj	Pepsi
Betty	Fri	Hyatt	Oppo
Claire	Tue	Hilton	Nestle
Daisy	Sat	Marriott	Whirlpool
Evan	Thu	Radisson	Apple
Fred	Wed	Crowne plaza	Himalaya

Option (c)

79. Who participated in the job fair on Wednesday?
 (a) Claire (b) Daisy (c) Fred (d) Albert

Option (c)

80. If the current salary packages of the friends working in Whirlpool, Nestle, Himalaya, Pepsi, Oppo and Apple are 20, 30, 40, 50, 60 and 70 lakhs per annum in the same order, then at the time of participating in job fair find the average annual package of Albert, Bern- and Fred?
- (a) 30 lakhs per annum (b) 90 lakhs per annum
(c) 20 lakhs per annum (d) 50 lakhs per annum

(d); The required average is $(50 + 60 + 40)/3 = 50$ option (d)

81. Which of the following friend is staying in Hilton?
- (a) Daisy (b) Claire (c) Albert (d) Betty

Option (b).

Directions (82 – 84): Based on the information below, answer the questions which follow.

Richie invites three of his friends Sunny, Pinky and Nancy for his birthday party organised at his home. As the party goes on till late in the night, Sunny, Pinky and Nancy choose to stay at Richie's house. Being good friends they usually stay back at each other's house. Each one of them including Richie stay either in the room painted blue or in the room painted purple. They have adequate number of rooms of both colours. The preferences which need to be fulfilled are:

- I. If Sunny stays in the room painted purple, then Pinky and Richie stay in the same room as Nancy.
- II. If Pinky stays in the room painted purple, then Sunny stays in the room in which Nancy and Richie don't stay.
- III. If Nancy stays in the room painted blue, then Sunny and Richie stay in the room which Pinky has chosen.
- IV. If Richie stays in the room painted Blue then Sunny and Pinky do not stay in the same room as Nancy.

82. Under all possible combinations which of the two friends will always/never have their room colours unchanged.
- (a) Richie & Sunny (b) Pinky & Richie (c) Nancy & Sunny (d) Nancy & Pinky

Solutions for Qs. 82 – 84:

Given conditions are as follows

1. If Sunny is in room purple then Pinky, Nancy & Ritchie will have same room colour.
2. If Pinky stays in room purple then Room colour of Sunny is different from both Nancy & Ritchie
3. If Nancy is in blue then Sunny, Ritchie & Pinky have same colour room.
4. If Ritchie in blue then Nancy room colour is different from Sunny & Pinky.

Let us assume Sunny is in purple then P, N & S are in same room colour.

If this room is purple then condition 2 is negated.

If this room is blue then condition (4) is negated

∴ Sunny has to be in room blue

Let us assume Nancy is in blue then S, R & P have same colour which is blue which will negate condition (4).

∴ Nancy is in room purple.

Now Pinky & Ritchie can have either room colour.

(c); Nancy & Sunny

83. If Richie chose to stay in the room painted blue, then in which room does Pinky stay?
- (a) Purple (b) Blue
(c) Data Inadequate (d) None of the above

(b); If Ritchie is in Blue then Pinky will be in Blue as per condition 4.

84. If Pinky does not like to stay in the blue painted room, then where will Sunny stay?
- (a) Blue (b) Purple
(c) Purple (d) None of the above

(a); Sunny is always in blue room.

Directions (85 – 88): Based on the information answer the questions which follow.

An agent has to send a secret message to CBI office in Delhi. He needs to compile his message using following 12 code words- Scare, Logical, Mouse, Beauty, Helping, Roses, Cats, Doctor, Arguments, Grade; Ferry and Mineral. The agent compiles the coded message and delivers it to CBI office in form of a 4x3 matrix. Each coded word has been allocated a position in the matrix (1x2 position represents row 1 and column 2). The clues to compile the secret message are:

- I. The words in 2x1 and 3x1 have the same number of letters.
- II. Roses is to the immediate left of Beauty and Mineral is immediately above Roses.
- III. The word in 4x3 is shorter than the word in 1x2.
- IV. Ferry is separated from Helping horizontally by only one word Logical.
- V. Arguments is at position 2x3 in the matrix and the word immediately below it has odd number of letters.
- VI. Crude and Doctor are in the same horizontal row and Grade is to the right of Doctor.
- VII. Cats is not in the same row or column as Mouse.

85. The product of the position of a coded word is 8. Identify the word.
(a) Crude (b) Helping (c) Beauty (d) Scare

Solutions for Sol. 85 – 88:

From the given conditions following grid can be formed.

	C1	C2	C3
R1	Mineral	Mouse	Scare
R2	Roses	Beauty	Arguments
R3	Ferry	Helping	Logical
R4	Doctor	Crude	Cats

(a); $4 \times 2 = 8$ word is cats

86. The sum of letters of which row is 19?
(a) 1 (b) 2 (c) 3 (d) 4

(c); Sum of letter of Row 3 is 19.

87. Which word is represented in 4x3 ?
(a) Scare (b) Crude (c) Cats (d) Data Inadequate

(c); Cats

88. Which of the following are placed diagonally in the matrix?
(a) Ferry-Mineral (b) Mineral-Mouse (c) Beauty-Scare (d) Arguments-Roses

(c); Beauty-Scare

Directions (89 – 92): Based on the information answer the questions which follow.

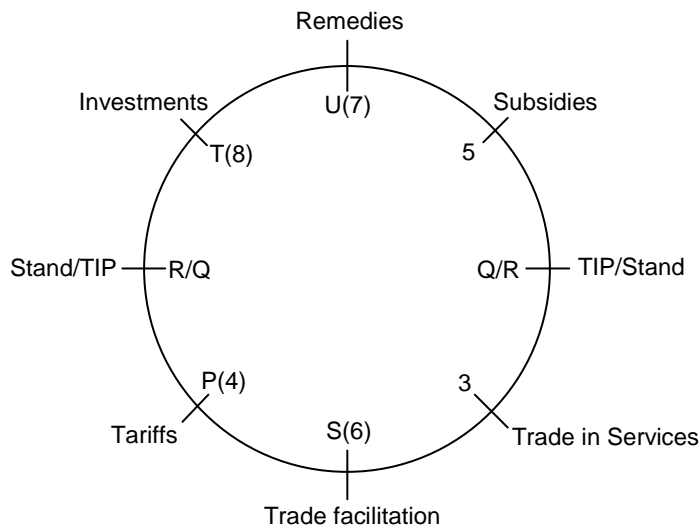
Eight officers of Indian Trade Service meet for a cup of coffee at Coffee Point. The officers P, Q, R, S, T, U, V and W are seated in a circle and discuss issues related to Trade in Services, Trade in Intellectual Property Rights, Investments, Tariffs, Remedies, Standards, Trade Facilitation and Subsidies not necessarily in the same order. An MBA student sitting on the next table overhears the discussion and ranks the issues as per their importance from 1 to 8. No two issues can have the same rank and no two officers can have the same position. Additional information available is:

- I. P is sitting to the immediate left of S and the officer opposite to S discusses issues pertaining to Remedies.
- II. U's issue is ranked 7th and there is one officer between U and the officer whose issue is ranked 2nd.
- III. The officer whose issue is ranked 1 is not opposite to the officer whose issue is ranked 8 who represents, issues related to Investments.
- IV. The ranks of the issues raised by the officers sitting opposite to each other cannot be both even or both odd.
- V. The officer discussing issues related to Trade in Services is sitting opposite to T. T is sitting at a gap of one place from P.
- VI. R is sitting opposite to Q and represent issues related to Standards and Trade in Intellectual Property Rights not necessarily in the same order.
- VII. P's issue was ranked 4th and he was discussing issues related to Tariffs and sits opposite to the officer ranked 5th who represents issues related to Subsidies.
- VIII. The officers representing issues related to Trade in Services and Trade Facilitation are sitting adjacent to each other.

89. Which officer discusses Remedies and what is its rank?
 (a) P – 4 (b) S – 1 (c) U – 7 (d) V – 5

Solutions for Qs. 89 – 92:

Based on the given information, following arrangement can be made;



(c);

90. If the officer V is to the immediate right of the officer representing Trade Facilitation, then the officer 4th to the right of V discusses which issue?
 (a) Tariffs (b) Remedies (c) Subsidies (d) Investments

(d); V will be at 3rd rank & 4th to the right of V will be T who discussed investments.

91. Which possible issues can be represented by W?
 (a) Standards-Trade in Intellectual Property Rights
 (b) Subsidies-Standards
 (c) Trade in Services-Subsidies
 (d) Trade in Services- Trade in Intellectual Property Rights-Subsidies

(c);

92. The officer to the 4th right to the officer discussing the issues related to Remedies, is discussing which issue?
 (a) Trade in Intellectual Property Rights (b) Trade Facilitation
 (c) Investments (d) Subsidies

(b);

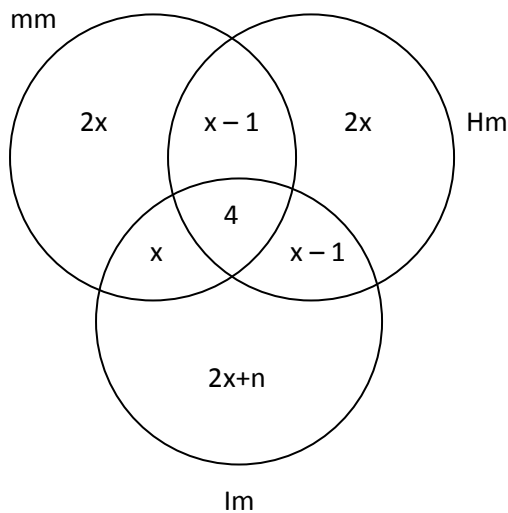
Directions (93 – 94): Based on the information answer the questions which follow.

A consultant to Department of Commerce, Government of Bianca has suggested 30 products which have high export potential. Dora an entrepreneur and prospective exporter notices that these products can be grouped in three ways- Machine made goods, Handmade goods and Intermediate goods. Among these 30 products some products are both machine made and intermediate goods but not handmade goods. Few products have a combination of handmade and machine made goods but not intermediate goods. Some products are handmade and intermediate goods but not machine made goods. Further it is seen that handmade-machine made goods are 1 less than machine made-intermediate goods. Similarly the total number of handmade-intermediate goods is 1 less than machine made-intermediate goods. There are just 4 products common across all product groups i.e. machine made-handmade- intermediate goods. Apan from this the number of only handmade goods is same as only machine made goods but less man only intermediate goods. Each product group/combination has at least one product.

Dora prefers to export machine made goods and avoid hand made goods. She finds out that only handmade goods are twice the machine made-intermediate goods and the number of only intermediate goods is an even number. Whereas her close friend Sara prefers to export intermediate goods followed by only handmade goods.

93. Sara and Dora prefer to export as many common products as possible in order to understand the regulatory conditions. Keeping their preferences intact, what is the maximum number of common products which can be exported by both of them?
 (a) 2 (b) 4 (c) 14 (d) Data inadequate

Solutions for Qs. 93 – 94:



Adding all
 $9x + N = 28$
 $x = \frac{28 - n}{9}$

For $2x + N$ to be even
 We get $N = 10, x = 2$

(a); Common product for both will be machine made Intermediate = $x = 2$. Option (a).

94. If another exporter Abeer prefers to export only intermediate goods, then the total number of products which both Abeer and Dora export are
 (a) 24 (b) 20 (c) 22 (d) 21

(b); Abeer exports only $Im = 2x + N = 14$.
 Dora exports mm (avoiding Hm) = $3x = 6$
 Total = 20
 Option (b).

Directions (95 – 96): Based on the information answer the questions which follow.

Nautanki a famous play group from Eastern India is playing different shows every hour starting from 1 Oam with a two hour lunch break from 1 pm to 3 pm after which the show resumes at 3 pm. Entry tickets for different shows are coded with 7 words each day. The same words are rearranged for different shows following a definite rule. For example:

Show 1 : Banana is the favourite fruit of Bina

Show 2 : the is of favourite Bina fruit Banana

Show 3 : of is fruit favourite Banana Bina the

And so on till the last show at 9 pm.

95. If on some other day, for the fourth show the code is 'All of Delhi welcome to the show'
 Then the code for entry ticket for the first show on that day is
 (a) The of all welhime to show Delhi
 (b) The of Delhi welcome all show to
 (c) The of to welcome all show Delhi
 (d) The of show welcome all to Delhi

(c);

	(1)	(2)	(3)	(4)	(5)	(6)	(7)
Show 1:	Banana	is	the	favorite	fruit	of	Bina
Show 2:	(3)	(2)	(6)	(4)	(7)	(5)	(1)
Show 3:	(6)	(2)	(5)	(4)	(1)	(7)	(3)

By using same displacement

Show 4:	(5)	(2)	(7)	(4)	(3)	(1)	(6)
i.e.	Fruit	Is	Bina	Favorite	The	Banana	Of

∴ if;	All	of	delhi	welcome	to	the	show
	(5)	(2)	(7)	(4)	(3)	(1)	(6)

is 4th then code for 1st is

the of to welcome all show delhi

96. If the entry code for the show at 7 pm is 'Do things to help others in difficulty' Then the code for entry ticket for the show at 12 noon of that day was
- (a) Do things others help to in difficulty
 - (b) Do things to help others in difficulty
 - (c) Do things to help in difficulty others
 - (d) Do things difficulty help to others in

(b);

10-11	pm→	(1)	(2)	(3)	(4)	(5)	(6)	(7)
11-12	noon→	(3)	(2)	(6)	(4)	(7)	(5)	(1)
12-1	pm→	(6)	(2)	(5)	(4)	(1)	(7)	(3)
3-4	pm→	(5)	(2)	(7)	(4)	(3)	(1)	(6)
4-5	pm→	(7)	(2)	(1)	(4)	(6)	(3)	(5)
5-6	pm→	(1)	(2)	(3)	(4)	(5)	(6)	(7)
6-7	pm→	Same as 11 am						
7	pm→	Same as 12 noon						

∴ Code of 7 pm & 12 noon will be same