Concentric Square Shaped seating arrangement:
Study the following information carefully and answer the questions given below. (Similar model given in Puzzles and seating arrangement PDF – Page Number: 121 Topic: Concentric circular and square shaped seating arrangement)
There are eight people P, Q, R, S, T, U, V and W are sitting along two concentric Squares. All the persons are exactly sitting at the middle of the edges. Those who are sitting in the outer Square are facing the center and those who are sitting in the inner Square are facing away from the center. There are four females and four males and all are married people. Married couples are facing each other. (If A is married to B then both are sitting in different circle and they face each other).
The one who sits to the immediate right of R is not female person. W and P are married to each other. T and P are not sitting in the inner Square. The immediate neighbor of W is not a male. S is not a female person. Among V and P one of them is male. Q is not an immediate neighbor of R and doesn’t sit in inner Square. R is married to U who is sitting in the inner circle.

1) S is married to _____?
   a) The one who sits immediate left of V  b) The one who sits is second to the left of W  
   c) The one who sits immediate right of R  d) The one who sits immediate left of R  
   e) None of those given as option

2) Four of the five among the following are similar in such a way to form a group, Which one of the following doesn’t belong to group?
   a) P, Q  b) T, R  c) U, S  d) V, W  e) R, Q

3) Who sits Immediate right of R’s Spouse?
   a) S  b) P  c) W  d) V  e) None of those given as option

Solution:

[Diagram of concentric squares with seating arrangement]
1) Answer: D
2) Answer: E
3) Answer: A

**Coded based seating arrangement**

Study the following information carefully and answer the questions given below. (Similar model given in Puzzles and seating arrangement pdf – Page Number: 29 Topic: Coded based seating arrangement).

Eight persons A, B, C, D, E, F, G and H are sitting around a circular table facing towards the center.

1. P @ Q means P sits Second to the left of Q
2. P # Q means P and Q sitting opposite to each other
3. P $ Q means P is an immediate neighbor of Q
4. P % Q means P sits third to the left of Q
5. P & Q means P sits third to the right of Q
6. P^Q means P is not an immediate neighbour of Q.

**Given Statements:**
H&E$G, B#E, C@G, D#F, E^C^F

1) Which one of the following is correct?
   a) H % D
   b) A $ D
   c) D # B
   d) G $ F
   e) Both (a) and (d)

**Solution:**

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  E
 /   \
A     G
 /     /\
F     D
 /     /  \
H     C
     B
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1) Answer: A
Linear Row with blood relation:
Direction: Study the following information carefully and answer the questions (Similar model given in Puzzles and seating arrangement PDF – Page Number: 171 Topic: IBPS RRB Officer Scale 1 – Mains (Held On 22nd September 2018)
Seven Persons A, C, F, J, N, R and V, all related to V in some way, facing north. J sits third from the extreme end. V’s father sits second to the right of J. Only three people are sits between V’s father and V’s sister. As many people sit to the left of V’s sister as to the right of V’s mother. Only one person sits between N and V’s mother. N is the son of C. A sits third to the right of C. C is the father of R. F sits to the immediate right of R. V’s wife sits second to the left of V.

Solution:

Direction Sense:
Direction: Study the following information carefully and answer the questions. (Similar coded based Direction sense given in Puzzles and seating arrangement PDF – Page Number: 116 Topic: Direction and distance based Puzzle).

A & B → A is 15 m to the north of B
A @ B → A is 23 m to the east of B
A # B → A is 20 m to the south of B
A % B → A is 12 m to the west of B

If P % Q # R & S @ T # U,

1) If Point X is 5m to the south of T, then what is the distance between Point X and Point P?
a) 15m
b) 23m
c) 11m
d) 6m
e) None of those given as option

1) Answer: C
Solution:

Direction (1-2): Study the following information carefully and answer the questions
Clubs (♣), diamonds (♦), hearts (♥) and spades (♠)
A ♥ B means A is to the North of B
A ♠ B means A is to the South of B
A ♦ B means A is to the East of B
A ♣ B means A is to the West of B

There are 3 buses travelling from Z to Y.
Bus 1: K 16 ♦ Z, J 10 ♣ K, M 9 ♥ J, D 18 ♠ M, C 29 ♣ D, P 9 ♥ C, Y 4 ♦ P
Bus 3: N 32 ♣ Z, Q 4 ♥ N, S 8 ♠ Q, T 4 ♥ S, C 20 ♦ T, U 4 ♥ C, U 4 ♣ V, Y 5 ♥ V

1) What is the distance between D & T?
a) 39m
b) 49m
c) 50m
d) 25m
e) None of those given as option

2) What is the distance and direction of E with respect to V?
   a) 47m, South
   b) 37m, South
   c) 25m, North
   d) 45m, East
   e) None of those given as option

Solution:

Answer:
1) Answer: B
2) Answer: A
Condition based seating arrangement:
Direction: Study the following information carefully and answer the questions. (Similar Condition based seating with concentric circular arrangement given in Puzzles and seating arrangement PDF – Page Number: 109, Topic: Figure Based Seating Arrangement, but in exam figure is not given).

A pentagon having 5 equal sides in which circle is inscribed. Eight persons A, B, C, D, E, F, G and H are sitting in a circular table facing center at an equal distance. Each of them has certain number of toffees. Inside a circle a triangle is inscribed.

Note: The sides of a triangle are numbered 1, 2, and 3 in anticlockwise direction. Similarly the corners of a pentagon are marked as 1, 2, 3, 4 and 5 in anticlockwise direction.

The one who has 56 toffees sits second to the left of D. There are two people sits between A and D. A is not an immediate of the one who has 56 toffees. Only one person sits between the one who has 56 toffees and 63 toffees. D has even number of toffees. Only one person sits between the one who has 63 toffees and the one who has 87 toffees. Three person sits between G and the one who has 87 toffees. A has 12 toffees more than that of G. E sits immediate left of A. There are three person sits between C and F. C is not an immediate neighbor of E. Sum of number of toffees of A and C is 116. B is not an immediate neighbor of G. D gets 35 toffees more than that of E. The one who has 31 toffees sits second to the left of the one who has 29 toffees.

After the arrangement three coins are tossed and the persons are shifting their position according to the below conditions.
1) When Head appeared in first and second coin and Toss appeared in third coin, then the person who has lowest odd number of toffees moved to corner 1 of a triangle and faces outside the center.
2) When Head appeared in first coin and Toss appeared in second and third coins, then the one who has more than 65 toffees but less than 75 toffees moved to corner 3 of a pentagon and faces inside the center.
3) When Head appeared in first and third coins and Toss appeared in second coin, then the person who has lowest even number of toffees moved to corner 2 of a triangle and faces inside the center.
4) If Head appeared in all the three coin, then the one who has more than 55 toffees but less than 60 toffees moved to corner 5 of a pentagon and faces outside the center.
5) When Toss appeared in first and third coin and Head appeared in second coin, then the person who has highest odd number of toffees moved to corner 1 of a pentagon and faces inside the center.
6) When Toss appeared in first and second coin and Head appeared in third coin, then the person who has highest even number of toffees remains at same position and facing outside the center.
7) All other persons are remains at same position and facing same direction.
Solution:
Final arrangement before the conditions applied

Final arrangement after the conditions applied
INPUT /OUTPUT:
Direction: Study the following information carefully and answer the questions
Input: 734269 825497 647538 219354 961357 321658
\[\text{Step 1:} \quad 962437 794528 465783 123945 753169 236185\]
\[\text{Step 2:} \quad 123945 236185 465783 753169 794528 962437\]
\[\text{Step 3:} \quad 135924 135268 357468 135796 579248 379246\]
\[\text{Step 4:} \quad 3458 31048 152848 33554 351832 211824\]
Step 5: 20 16 28 20 22 18

Input: 856347 745982 329584 512379 954267 463512
Solution:
Step 1: If the given number is odd number then the number itself written in reverse order from left to right. If the given number is Even number then the first and second number is interchanged, similarly Third and Fourth number is interchanged and also Fifth and sixth numbers interchange their position.
Step 2: The Numbers obtained in step 1 is arranged in ascending order from left end to right end.
Step 3: Odd digit within the numbers are arranged in ascending order from left to right then even digits are arranged in ascending order from left to right.
Step 4: From the left end of the number, First and second digit is multiplied, then third and fourth digit is multiplied, then Fifth and Sixth digit is multiplied and written from left to right.
Step 5: All the digits within the numbers are added.
Input: 856347 745982 329584 512379 954267 463512
\[\text{Step 1:} \quad 743658 479528 235948 973215 762459 645321\]
\[\text{Step 2:} \quad 235948 479528 645321 743658 762459 973215\]
\[\text{Step 3:} \quad 359248 579248 135246 357468 579246 135792\]
\[\text{Step 4:} \quad 151832 351832 31024 152848 351824 33518\]
Step 5: 20 22 10 28 23 20

CODING AND DECODING
Direction: Study the following information carefully and answer the questions
The following words are coded in this manner:
‘Words make sentences meaningful’ as \(8$A, 2!R, 6#C, 14$F\)
‘Rain stops every week’ as \(2^E, 2#O, 8+A, 8!E\)
‘Eagerly receives ___(a)___ as \(6%R, 4^R, 12+V\)
‘Rarely prepares tasty food’ as \(12%R, 2~S, ___(b)___, 8@O\)

1) What will come in the blank ‘(a)?’
a) Prepares

Follow us: Telegram, Facebook, Twitter, Instagram
b) Rarely

c) Tasty

d) Food

e) Eagerly

2) What will come in the blank ‘(b)’?

a) 5$F
b) 8*D
c) 10+E
d) 7#D
e) 9^Y

Solution:
1) Answer: a
2) Answer: C

- Alphabets represent third letter from the right end of the given word
- Number denotes that, If the number of letter in the given word is odd then subtract three from the number or If the number of letter in the given word is Even then add four from the number
- First letter of each word represent specific symbols

W - !
M - $ 
S- #
R - ^
E- +
P - %
T - ~
F - @

Example: Words – 2 ! R

Note 1: One seating arrangement was asked based on parallel rows. Each row has six persons. It was based on Distance.

Note 2: One puzzle was asked based on boxes arranged in three stacks 1, 2, 3 from left to right. Each stack has shelves with total height of each stack is 330cm. The heights of box also need to calculate.