

Maximum Marks : 20

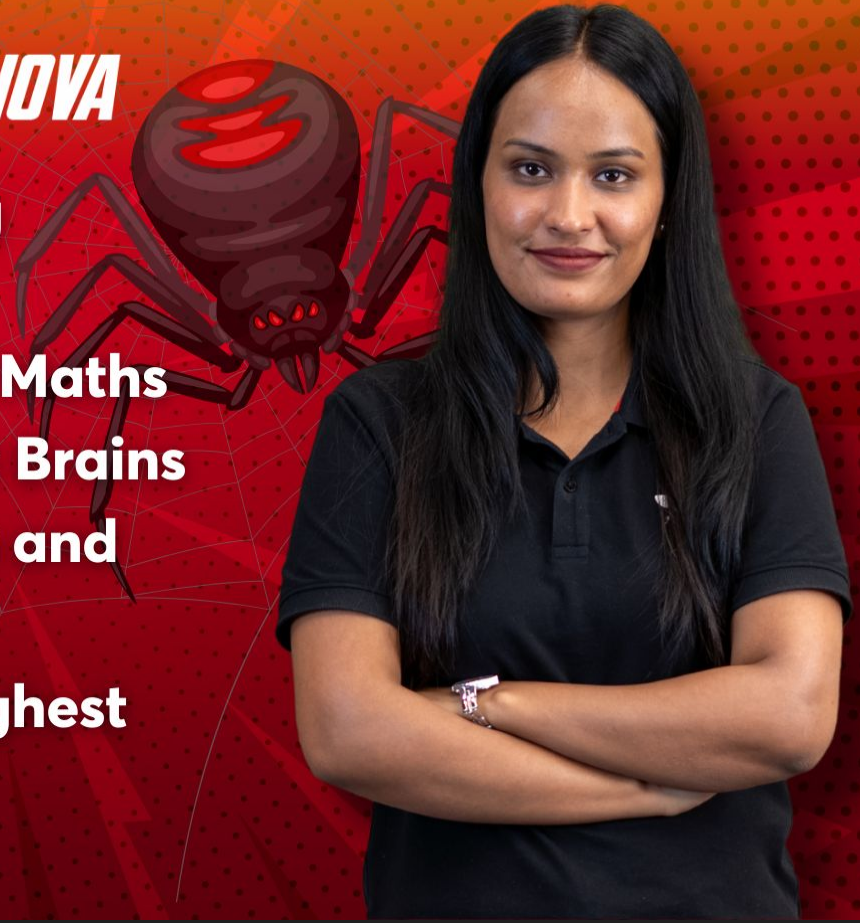
# LOGICAL REASONING

By : SHIVANI SHARMA

# SHIVANI SHARMA

## QUANTITATIVE APTITUDE ROMANOVA

- **7 years** of experience in teaching **Mathematics**
- **Gold Medalist** in M.Sc. and B.Sc. Maths
- Was **#1 Maths Faculty** in Magnet Brains
- Teaches Maths in **CA foundation** and **K-12**
- Taught **30000+** students with highest score as 100





# PRE-EXAM MARATHON QUANTITATIVE APTITUDE

Date	Time	Topic
22nd June	6:00 PM	Pre-Exam Marathon schedule
22nd June	7 PM to 11 PM	Most Expected Questions   Business Mathematics
23rd June	11 AM to 1 PM	Most Expected Questions   Logical Reasoning
23rd June	3 PM to 7 PM	Most Expected Questions   Statistics
23rd June	9 PM to 11 PM	Attempt Live Exam: 100 Marks with Solutions
24th June	8 AM to 10 AM	Exam Booster - Formula Revisions



**CA FOUNDATION - JUNE 2024**

**SHIVANI SHARMA**

A (1)	B (2)	C (3)	D (4)	E (5)
F (6)	G (7)	H (8)	I (9)	J (10)
K (11)	L (12)	M (13)	N (14)	O (15)
P (16)	Q (17)	R (18)	S (19)	T (20)
U (21)	V (22)	W (23)	X (24)	Y (25)
Z (26)				

Left to Right

E (5)	J (10)	O (15)	T (20)	Y (25)
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## Backward order position ( Right to Left )

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1

Backward order position of any letter =  $27 - \text{forward order position of that letter}$

## OPPOSITE LETTERS

- A — Z (A to Z)
- B — Y (BY)
- C — X (CraX)
- D — W (DeW)
- E — V (LOVE)
- F — U (FU<sub>n</sub>)
- G — T (GT road)
- H — S (High School)
- I — R (Indian Railway)
- J — Q (Jealous Queen)
- K — P (PK)
- L — O (LOVE)
- M — N (MaN)

**Que.** GO = 32 , SHE = 49 , then SOME will be equal to

(a) 56

(b) 58

(c) 62

(d) 64

**Ans. a**

USE MY CODE : SS12

**Que.** Find odd man out of the series 16, 25, 36, 72, 144, 196, 225

(a) 36

(b) 72

(c) 196

(d) 225

**Ans. b**

USE MY CODE : SS12

**Que.** If  $F = 6$ ,  $MAT = 34$ , then how much is  $CAR$ ?

(a) 21

(b) 22

(c) 25

(d) 28

**Ans.b**

USE MY CODE : SS12

**Que.** If GARDEN is coded as 325764 and WATER as 92165, how can we code the word WARDEN in the same way?

- (a) 925764
- (b) 295764
- (c) 952764
- (d) 957264

**Ans. a**

**Que.** In the following letter-series some letters are missing. The missing letters are given in the proper sequence as one of the alternatives. Find the correct alternative.

**ab—abcab—abc—bca—c**

**a) abac**

**(b) bcac**

**(c) ccab**

**(d) bbac**

**Ans.c**

USE MY CODE : SS12

**Que.** If in a certain code '493' means 'Friendship difficult challenge', '961', means, 'Struggle difficult Exam., and '178' means 'Exam believable subject', then which digit is used for 'believable'?

- (a) 7 or 8
- (b) 7 or 9
- (c) 8
- (d) 8 or 1

**Ans. a**

**Que.** If 'INSURE' is coded as 951395, then how will 'PATRIOT' be coded?

- (a) 7126299
- (b) 7129926
- (c) 7129962
- (d) 7129692

**Ans c**

USE MY CODE : SS12

**Que.** If MACHINE is coded as 19 - 7 - 9 - 14 - 15 - 20 - 11, how will you code DANGER?

(a) 11-7-20-16-11-24

(b) 13-7-20-9-11-25

(c) 10-7-20-13-11-24

(d) 13-7-20-10-11-25

**Ans. c**

USE MY CODE : SS12

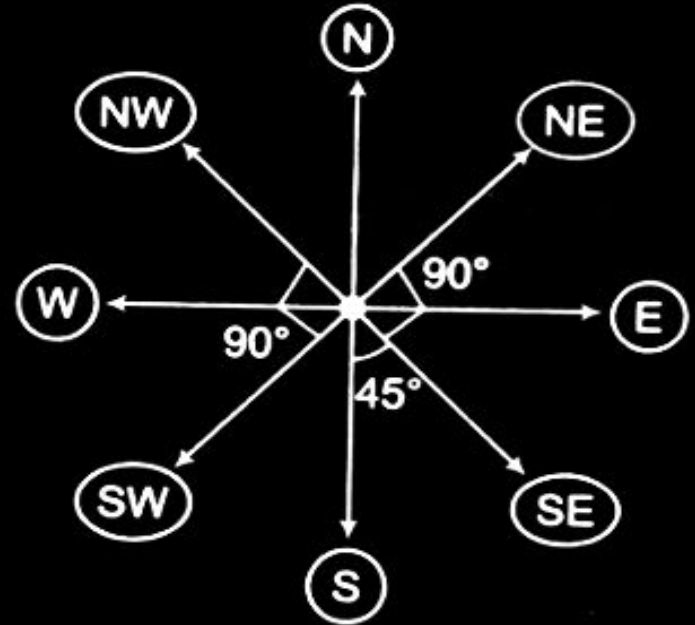
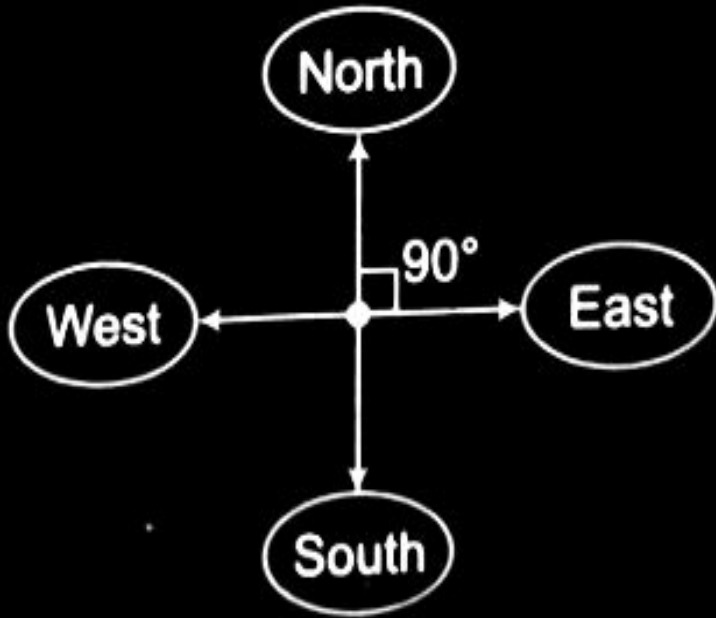
**Que.** If HEALTH is written as GSKZDG, then how will NORTH be written in that code?

- (a) OPSUI
- (b) GSQNM
- (c) FRPML
- (d) IUSPO

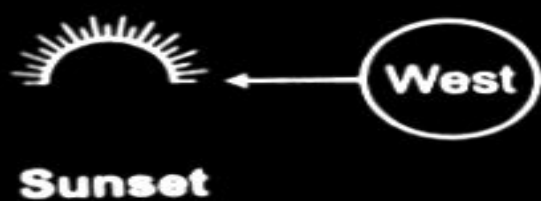
**Ans. b**

USE MY CODE : SS12

## Direction Sense Test

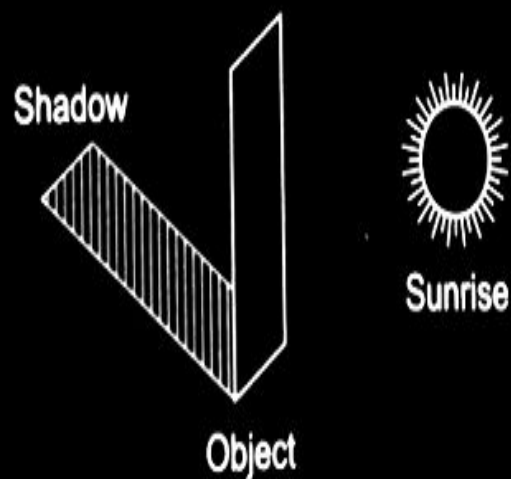
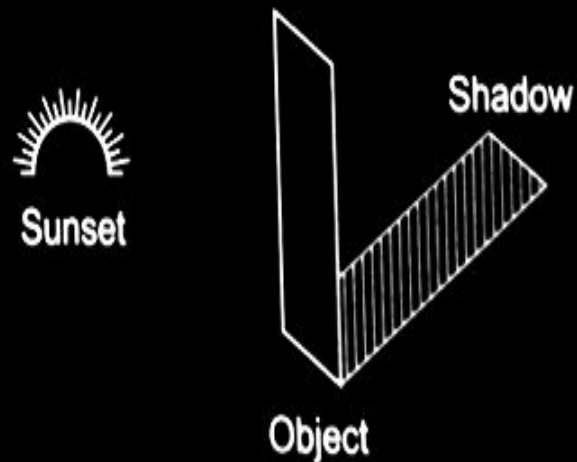


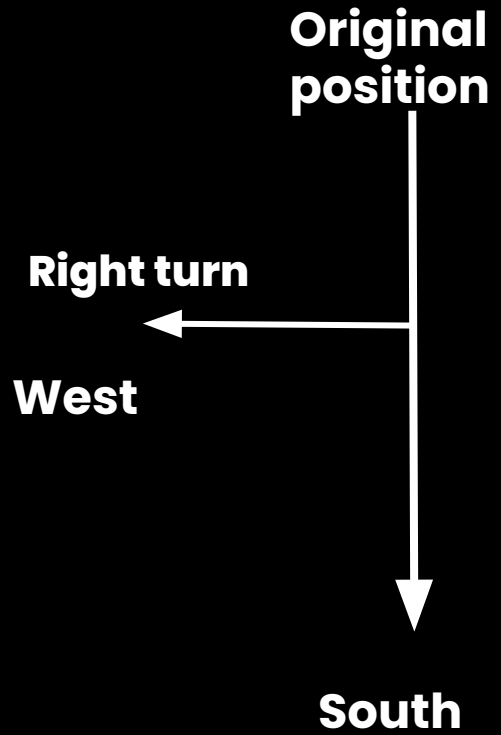
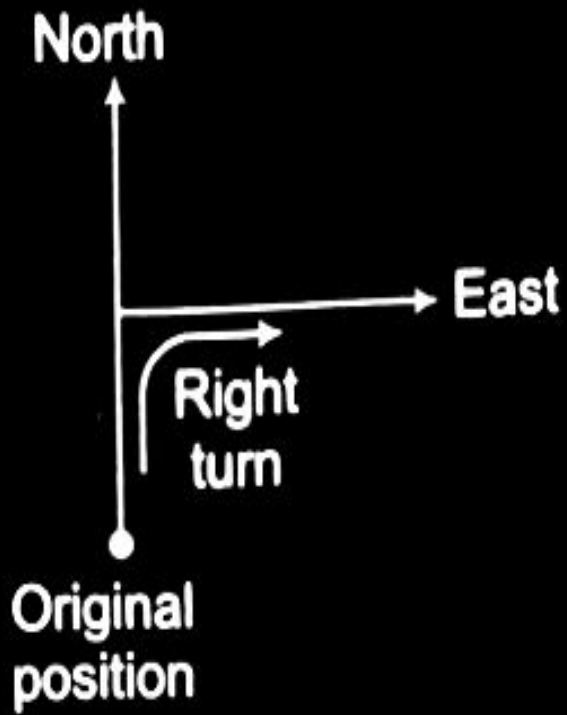
USE MY CODE : SS12



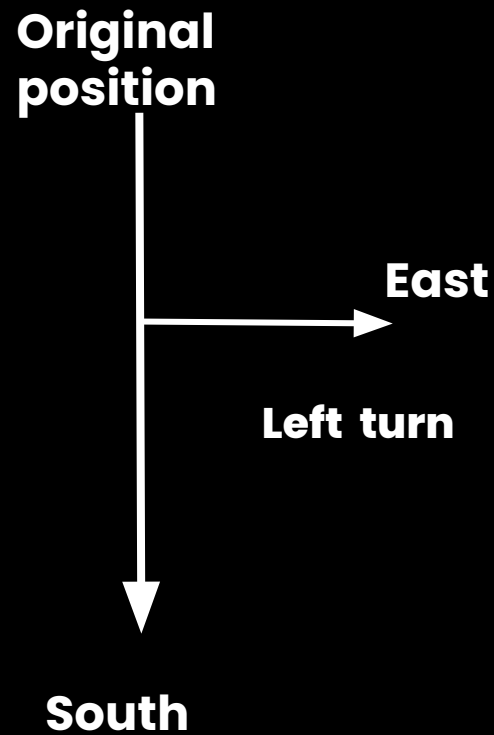
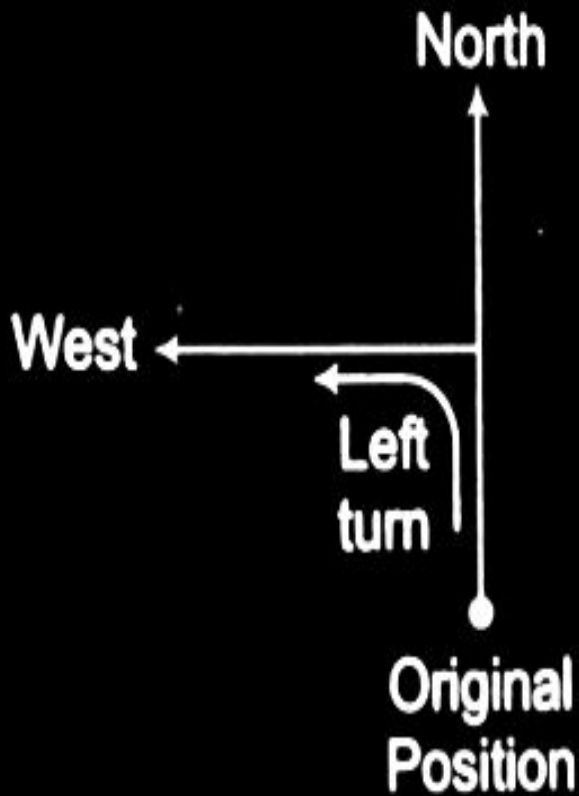
### Shadow at the time of sunset

### Shadow at the time of sunrise





USE MY CODE : SS12





**Clockwise**



**Que.** One day , Ram ran away from home . He ran 10 km to south , then turned right at  $45^\circ$  , and ran for 10 km , then turned right at  $45^\circ$  and ran for 10 km . In which direction is he facing now ?

- (a) North
- (b) East
- (c) West
- (d) South

**Ans. C**

USE MY CODE : SS12

**Que.** If east is replaced by south- east then west will be replaced by which of the following directions ?

- (a) North - east**
- (b) North**
- (c) East**
- (d) North - west**

**Ans. d**

USE MY CODE : SS12

**Que.** A direction pole was situated on the crossing . Due to an accident , the pole turned in such a manner that the pointer , which was showing east started showing North . One traveller went to the wrong direction thinking it to be the west . In what direction was he actually travelling ?

- (a) North
- (b) South
- (c) East
- (d) West

**Ans. a**

USE MY CODE : SS12

**Que.** One morning a boy starts walking in a particular direction for 5 Km and then takes left turn and walks another 5 km . Thereafter , he again takes left turn and walks another 5 km and at last he takes right turn and walks 5 km . Now he sees his shadow in front of him . What direction he did start initially ?

- (a) South
- (b) North
- (c) East
- (d) West

**Ans. b**

USE MY CODE : SS12

**Que.** A and B start moving towards each other from two places 200 m apart . After walking 60 m , B turns left and goes 20 m then he turns right and goes 40 m . He Then turns right again and comes back to the road on which he had started walking . If A and B walk with the same speed , what is the distance between them now ?

- (a) 80 m
- (b) 70 m
- (c) 40 m
- (d) 60 m

**Ans. c**

USE MY CODE : SS12

**Que.** Sangeeta leaves from her home. She first walk 30 metres in North-West direction, and then 30m in South-West direction, next she walks 30 metres in South-East direction. Finally she turns towards her house. In which direction is she moving?

- (a) North-West
- (b) North-East
- (c) South-East
- (d) South-West

**Ans. b**

USE MY CODE : SS12

**Que.** Rahim started from point X and walked straight 5 km east, then turned left and walked straight 2 km. and again turned left and walked straight 7 km. In which direction is he from the point X ?

- (a) North-East
- (b) South-West
- (c) South-East
- (d) North-West

**Ans. d**

USE MY CODE : SS12

**Que.** Praveen is facing west. He turns  $45^\circ$  in the clockwise direction and then again another turns with  $180^\circ$  in the same direction i.e. clockwise direction, after that he turns  $270^\circ$  in the anti-clockwise direction. Which direction is he facing now ?

- (a) North-West
- (b) West
- (c) South-West
- (d) South

**Ans. c**

USE MY CODE : SS12

**Que.** Shweta moved a distance of 75 metres towards the north. She then turned to the left and walking for about 25 metres, turned left again and walked 80 metres. Finally, she turned to the right at an angle of  $45^\circ$ . In which direction was she moving finally?

- (a) South
- (b) South-West
- (c) North-East
- (d) North-West

**Ans. b**

USE MY CODE : SS12

**Que.** Rashmi walked 2 km west of her house and then turned south covering 4 km. Finally, she moved 3 km towards east and then again 1 km west. How far is she from her initial position?

- (a) 7 km
- (b) 3 km
- (c) 4 km
- (d) 12 km

**Ans. c**

USE MY CODE : SS12

**Que.** Find the odd man out : 34 , 105 , 424 , 2125 , 12755

(a) 12755

(b) 2125

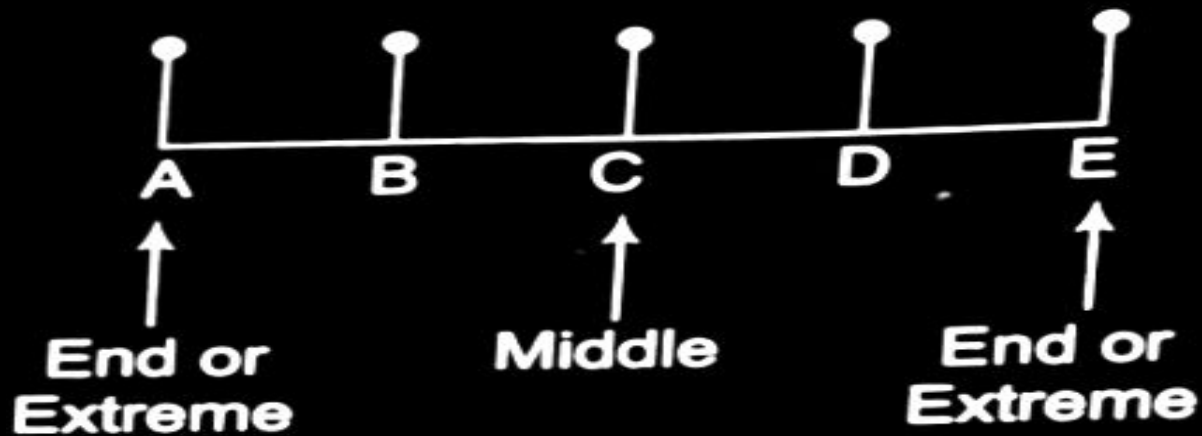
(c) 424

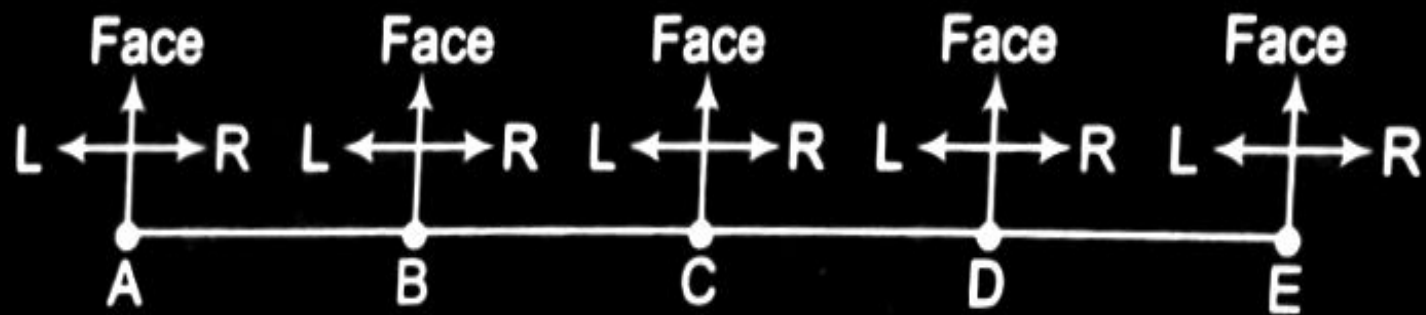
(d) 34

**Ans. a**

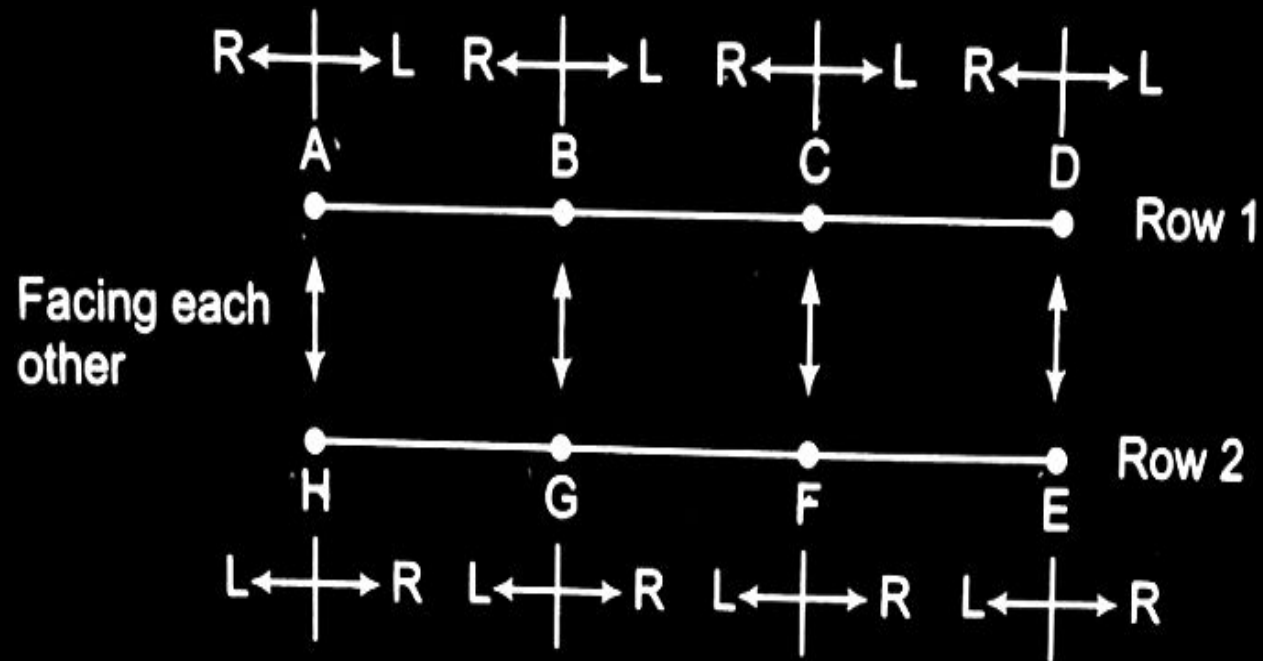
USE MY CODE : SS12

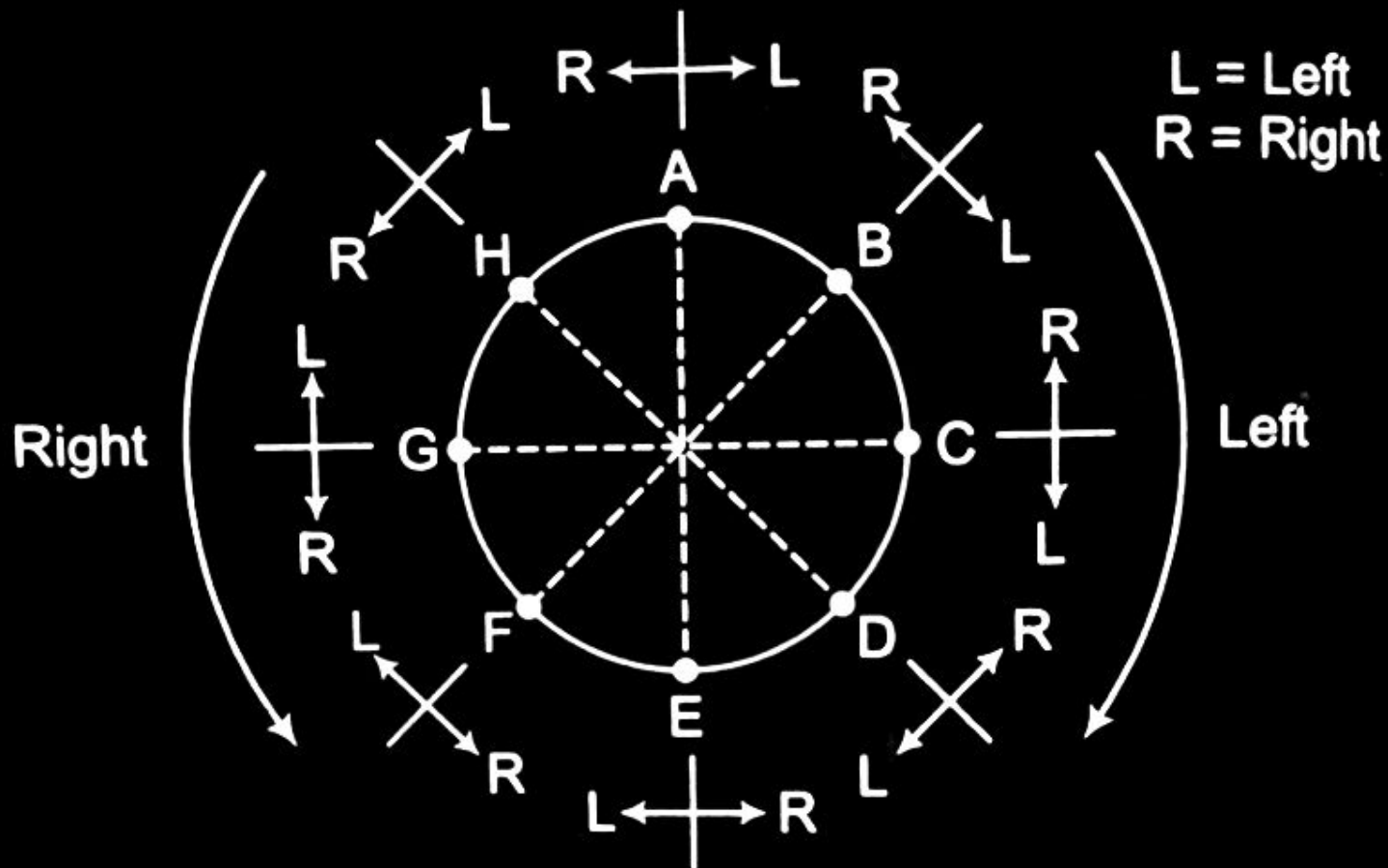
## SEATING ARRANGEMENT





L = Left  
R = Right





**Facing the centre**

**Que.** P , Q , R , S, and T are seated in a line facing west . R is sitting at north end and S is sitting at south end . T is neighbour of R and Q . P and Q are seated together , then who is sitting in the middle

- (a) P
- (b) Q
- (c) R
- (d) S

**Ans. b**

USE MY CODE : SS12

**Que.** A, B, C, D, E and F are sitting around a round table. A is between E and F, E is opposite to D, and C is not in either of the neighbouring seats of E. Who is opposite to B ?

- (a) C
- (b) D
- (c) F
- (d) None of these

**Ans. c**

USE MY CODE : SS12

( ) A, B, C, D, E, F and G are sitting in a straight line facing north, but not necessarily in the same order. There is only one person between F and C. E sits between A and D. There are only two persons between E and G. F sits on the immediate left of A, who sits in the middle of the row.

**Que.** How many persons are there between E and F

- (a) 1
- (b) 2
- (c) 3
- (d) 4

**Ans. a**

**() A, B, C, D, E, F and G are sitting in a straight line facing north, but not necessarily in the same order. There is only one person between F and C. E sits between A and D. There are only two persons between E and G. F sits on the immediate left of A, who sits in the middle of the row.**

**Que.** Who among the following sits to the immediate right of D

- (a) G**
- (b) E**
- (c) F**
- (d) B**

**Ans.d**

**Que.** In a line, P is sitting 13th from left. Q is sitting 24th from the right and 3rd left from P. How many people are sitting in the line?

- (a) 34
- (b) 31
- (c) 32
- (d) 33

**Ans d**

USE MY CODE : SS12

**Que.** In a straight line there are six persons sitting in a row. B is between F and D. E is between A and C. A does not stand next to F or D, C does not stand next to D. F is between which of the following persons?

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

**Ans. b**

USE MY CODE : SS12

**Que.** Eight leaders P, Q, R, S, T, U, V and W are sitting on a bench facing towards North.

**(i) T is fourth to the left of P**

**(ii) S is fourth to the right of W**

**(iii) U and R are not sitting at the ends, but they are neighbours of T and Q respectively.**

**(iv) P is next to the right of W and but left of Q.**

**Who are sitting at the extreme ends ?**

**(a) T and S**

**(b) P and Q**

**(c) U and R**

**(d) None**

**Ans. a**

USE MY CODE : SS12

**Que.** Four ladies A, B, C and D and four gentlemen E, F, G and H are sitting in a circle round a table facing each other.

**Directions:**

- (1) No two ladies or two gentlemen are sitting side by side.**
- (2) C, who is sitting between G and E is facing D.**
- (3) F is between D and A and is facing G.**
- (4) H is to the right of B.**

**Who are immediate neighbours of B?**

- |                    |                    |
|--------------------|--------------------|
| <b>(a) G and H</b> | <b>(b) F and H</b> |
| <b>(c) E and F</b> | <b>(d) E and H</b> |

**Ans. a**

USE MY CODE : SS12

**Que.** Six girls are standing in such a way that they form a circle, facing the centre. Subbu is to the left of Pappu, Revathi is between Subbu and Nisha, Aruna is between Pappu and Keerthana. Who is to the right of Nisha?

- (a) Revathi
- (b) Aruna
- (c) Subbu
- (d) Keerthana

**Ans. a**

USE MY CODE : SS12

**Que.** Six friends A, B, C, D, E and F are sitting in a row facing towards North, C is sitting between A and E, D is not at the end, B is sitting at immediate right of E, F is not at the right end, but D is sitting at 3<sup>rd</sup> left of E. Which of the following is sitting to the left of D?

- (a) A
- (b) F
- (c) E
- (d) C

**Ans. b**

# BLOOD RELATIONS

1. Grandfather's son	• Father or Uncle
2. Grandmother's son	• Father or Uncle
3. Grandfather's only son	• Father
4. Grandmother's only son	• Father
5. Mother's or father's mother	• Grandmother
6. Son's wife	• Daughter-in-Law
7. Daughter's husband	• Son-in-Law
8. Husband's or wife's sister	• Sister-in-Law
9. Brother's son	• Nephew
10. Brother's daughter	• Niece
11. Uncle or aunt's son or daughter	• Cousin
12. Sister's husband	• Brother-in-Law
13. Brother's wife	• Sister-in-Law
14. Granson's or grand daughter's daughter	• Great grand Daughter

USE MY CODE : SS12

<b>Symbols</b>	<b>Meaning</b>
$\oplus$	<b>Male</b>
$\ominus$	<b>Female</b>
$\oplus \leftrightarrow \ominus$	<b>Husband-Wife (Married Couple)</b>
$\oplus - \oplus$	<b>Brother-Brother</b>
$\ominus - \ominus$	<b>Sister-Sister</b>
$\oplus - \ominus$	<b>Brother-Sister</b>

<b>Symbols</b>	<b>Meaning</b>
⊕   ⊕	<b>Father-Son</b>
⊕   ⊖	<b>Father-Daughter</b>
⊖   ⊕	<b>Mother-Son</b>
⊖   ⊖	<b>Mother-Daughter</b>

**Que.** Pointing to a lady in a photograph , Ram said “ Her son’s father is the son in law of my mother “. How is Ram related to the lady ?

- (a) Aunt
- (b) Cousin
- (c) Sister
- (d) Mother

**Ans. b**

USE MY CODE : SS12

**Que.** Pointing to a photograph, a man said to a woman "His mother is the only daughter of your father " How is the woman related to that person

- (a) Daughter
- (b) Sister
- (c) Mother
- (d) Wife

**Ans. C**

USE MY CODE : SS12

**Que.** A is the father of C and D is the son of B. E is the brother of A . If C is the sister of D, how is B is related to E?

- (a) Daughter
- (b) Brother-in-law
- (c) Husband
- (d) Sister-in-law

**Ans. d**

USE MY CODE : SS12

**Que.** If 'P + Q' means 'P is the father of Q', 'P × Q' means 'P is the brother of Q', 'P - Q' means 'P is the mother of Q', then which of the following is definitely true about 'C - A + B'?

- (a) B is the son of A
- (b) A is the son of C
- (c) B is the father of C
- (d) C is the mother of B

**Ans. b**

USE MY CODE : SS12

**Que.** A and B both are children of C. If C is the mother of A, A is the son of C but B is not the daughter of C, then how are A and B mutually related?

- (a) A is the brother of B**
- (b) A is the nephew of B**
- (c) A is the sister of B**
- (d) A is the cousin of B**

**Ans. a**

USE MY CODE : SS12

Each of these questions is based on the following information:

$P \% Q$  means P is the father of Q.

$P @ Q$  means P is the sister of Q.

$P \$ Q$  means P is the brother of Q.

$P * Q$  means P is the wife of Q.

**Que.** In the expression  $F \$ D \% K @ H * R$ , how is D related to R?

- (a) Father
- (b) Mother
- (c) Sister
- (d) Father in law

**Ans. d**

USE MY CODE : SS12

**Que.** A is B's brother. C is D's father. E is B's mother. A and D are brothers. How is E related to C?

- (a) Sister
- (b) Sister-in-law
- (c) Niece
- (d) Wife

**Ans. d**

**Que.** Pointing out to a photograph, a man tells his friend, "She is the daughter of the only son of my father's wife." How is the girl in the photograph related to the man?

- (a) Daughter
- (b) Mother
- (c) Cousin
- (d) Sister

**Ans. a**

**Que.** Pointing to a lady , Sahil said " She is the daughter of the women who is the mother of the husband of my mother " . Who is the lady to Sahil ?

- (a) Aunt**
- (b) Mother**
- (c) Cousin**
- (d) Sister**

**Ans. a**

**Que.** A prisoner introduced a boy who came to visit him to the jailor as “ Brothers and sisters , I have none , he is my father’s son’s son . Who is the boy ?

- (a) Nephew
- (b) Son
- (c) Cousin
- (d) Uncle

**Ans. b**