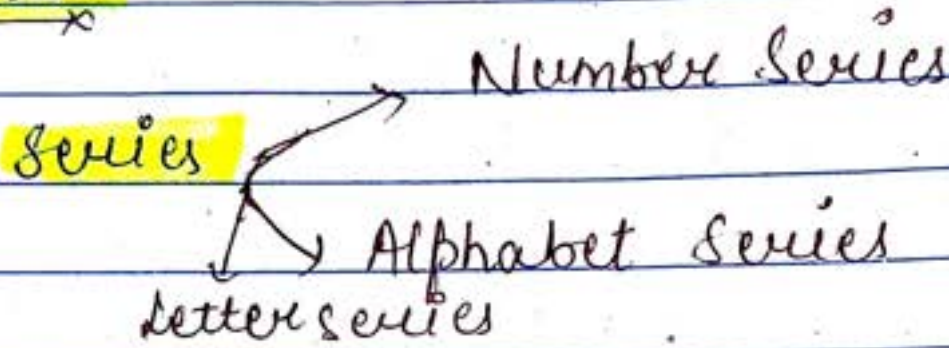




Logical Reasoning

Number Series, Coding and Decoding and Odd Man Out



Number Series

- Perfect square series $\Rightarrow 1, 4, 9, 16, 25 \dots$
 $\Rightarrow (1^2, 2^2, 3^2, 4^2, 5^2)$
- Perfect cube series $\Rightarrow 1, 8, 27, 64, 125, 216 \dots$
 $(1^3, 2^3, 3^3, 4^3, 5^3, 6^3)$
- Difference series $\Rightarrow 2, 5, 8, 11, 14$
 $5-2=3$ $8-5=3$ $11-8=3$ $14-11=3$
 $14+3=17$
- Ratio series $\Rightarrow 2, 4, 8, 16, 32$ $\times 2$ (64)
 $\frac{4}{2}=2$ $\frac{8}{4}=2$ $\frac{16}{8}=2$ $\frac{32}{16}=2$
- Prime no. series $\Rightarrow 2, 3, 5, 7, 11, 13, 17, 19, 23$
- mixed series $\Rightarrow 2, 4, 3, 6, 5, 8, 7, 10, 11, 12, 13, 14, 15$
 (Prime numbers: 2, 3, 5, 7, 11, 13)
 (Squares $\times 2$: 4, 6, 8, 10, 12, 14, 15)

○ Prime no.
 ✓ Squares $\times 2$



Two tier series \rightarrow 2, 5, 11, 23, 47, \textcircled{x}
 $\underbrace{2 \rightarrow 5}_{\times 2 + 3}$ $\underbrace{5 \rightarrow 11}_{\times 2 + 6}$ $\underbrace{11 \rightarrow 23}_{\times 2 + 12}$ $\underbrace{23 \rightarrow 47}_{\times 2 + 24}$ $\underbrace{47 \rightarrow x}_{\times 2}$

$x = 47 = 48$

$x = 47 + 48$ $x = 95$

Alphabet series

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

D	H	L	P	T	X
↓	↓	↓	↓	↓	↓
4	8	12	16	20	24

Letter Series

A series of small letters following a standard pattern. e

Coding and Decoding.

Letter coding

Number coding.

ex -> STUDENT

ex -> A T E \rightarrow 145

CHAIR \rightarrow 09173

then write TEACHER code.

TEACHER \rightarrow 4510953.

DUTSTNE

2) SOURCES

RUOSSEC

Odd man Out

ex-1

Ques:
 You are Good - 256
 Good and bad - 358
 We are bad. - 637
 Find the code of 'And'.

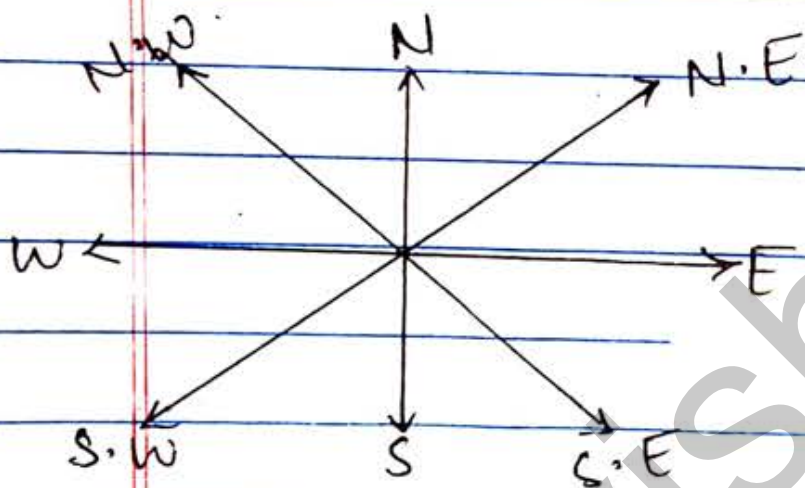
sol: 2
 You are (5) (6) Good
 (5) (5) (8) Good and bad.
 (3) (7) We are bad

ex-2

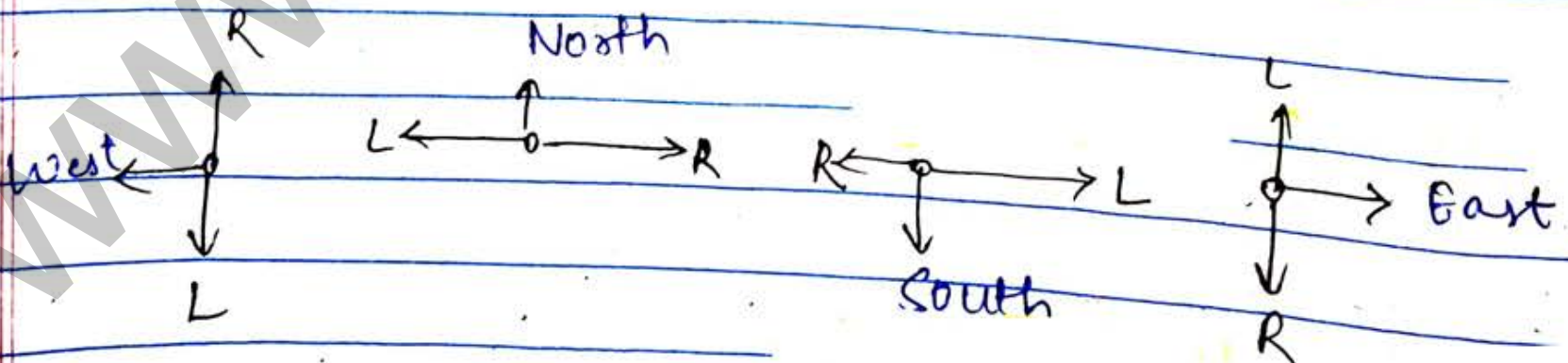
3, 5, 7, (15), 17, 19
 odd
 Prime no.

And \Rightarrow [8]

Direction Sense Test



Left or right



Right turn

Point your left hand finger towards direction going & turn your hand 90°

Left turn

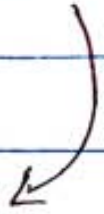
Right hand finger point towards direction you goint.

Palm \rightarrow 90° turn.



Rotation and degree

Left hand turning



Clockwise

↓
Right

Right hand turning



Anticlockwise

↓
Left

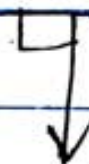
ex-) You are facing South → Anticlock turn 360° , turn same 180° & then same 270° after that you are turning to clockwise 270° , then 180° , then 90° & then 360° in same direction.
In which direction are you facing now?

$$AC : - 360^\circ + 180^\circ + 270^\circ = 810^\circ$$

$$Clockwise : - 270^\circ + 180^\circ + 90^\circ + 360^\circ = 900^\circ$$

$$Clockwise - Anticlockwise = 900 - 810 = 90^\circ$$

west ←



South

west

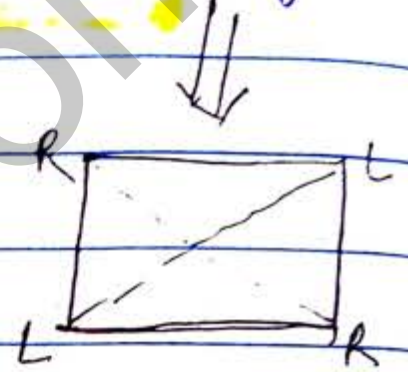
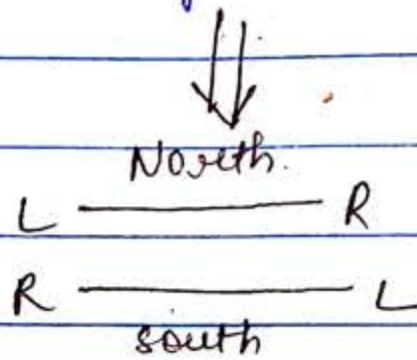
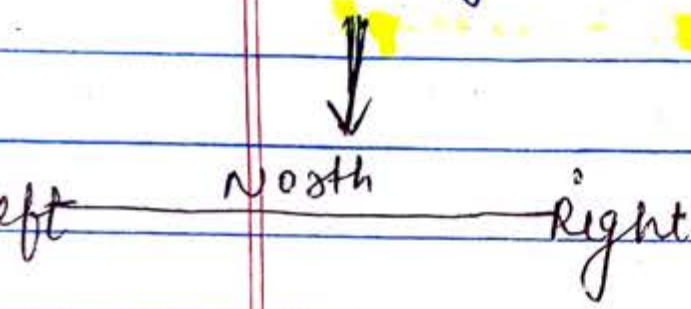
Seating Arrangement

Linear arrangement

Two row sequence arrangement

Circular arrangement

Polygon arrangement



* Imp. Points

- Immediate left \rightarrow next to the left
- Immediate right \rightarrow next to the right
- To the left \rightarrow D \leftarrow A, B, C
- To the right \rightarrow A \rightarrow B, C, D, E
- In between \rightarrow B (C) D

* And & But

\Downarrow
if used in ques.
 \Downarrow
means before
word.

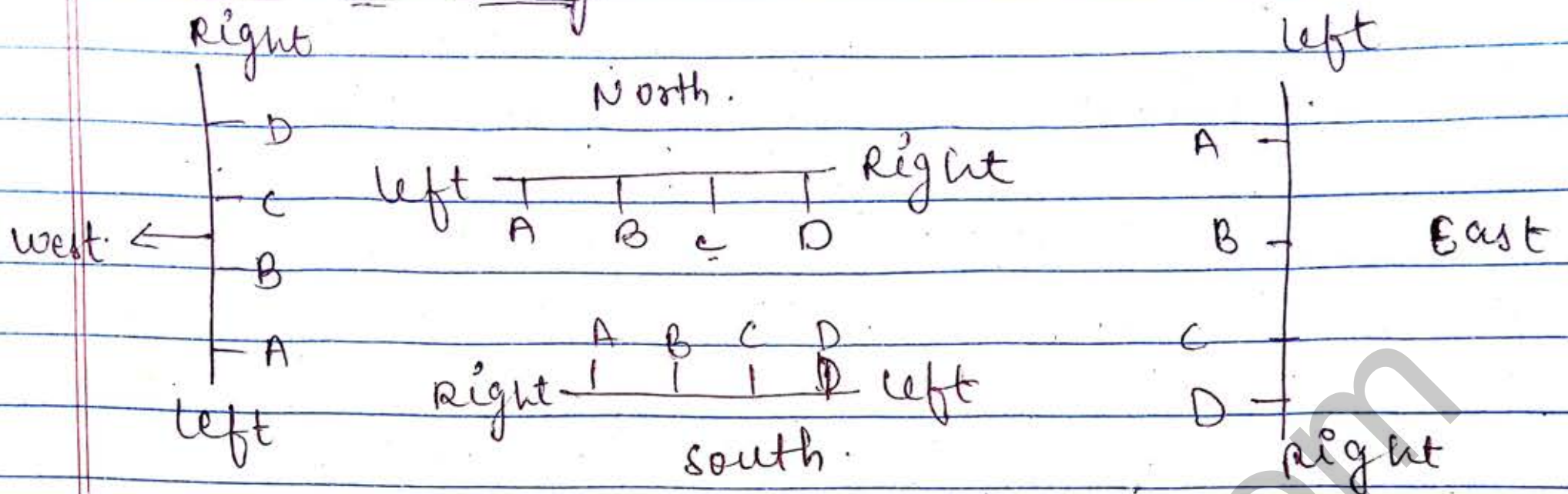
ex \Rightarrow F is the left of M and to the right of O.

O F M

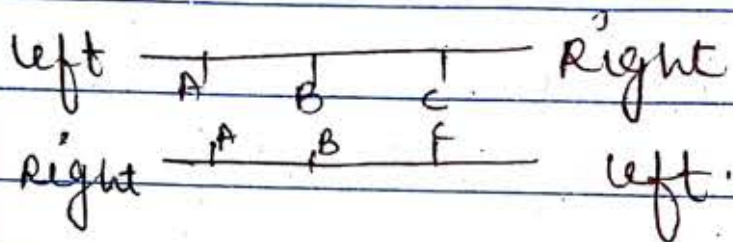
* Types of information provided :-

Direct Comparative Negative

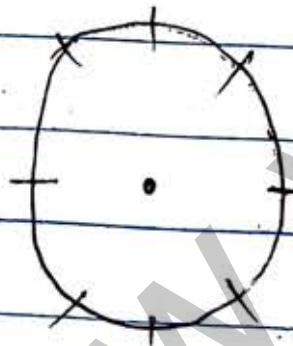
* Objection and Facing



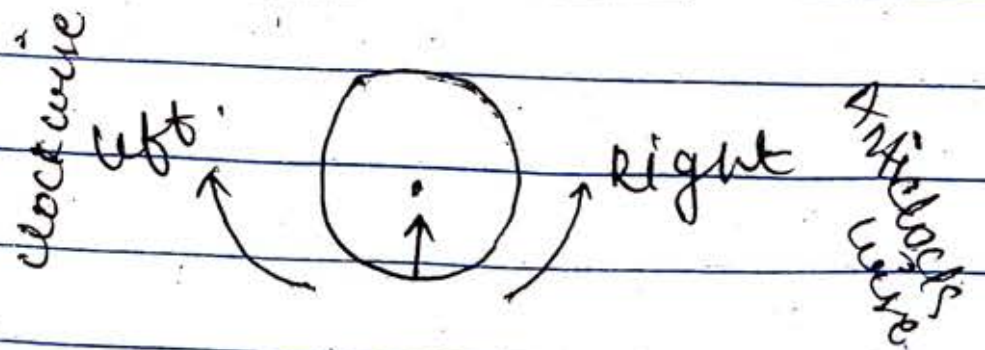
• Double Row arrangement



• Circular arrangement



(a) Towards the center



(b) Looking outside

