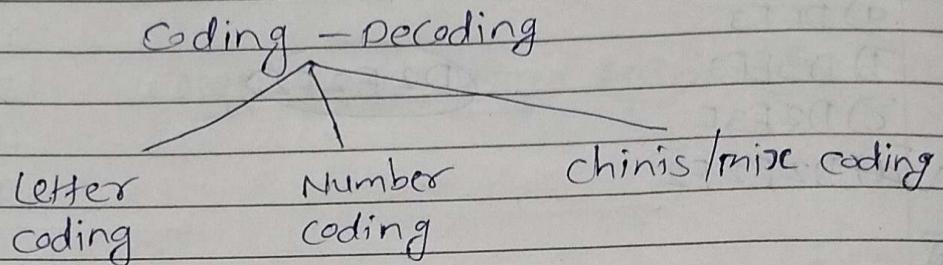


21/12/2025

22. Coding - Decoding

PAGE NO.:

DATE: / /



(*) Letter coding :-

(1) Forward coding :- (+1, +2, +3, ---, -1, -2, -3)

(#)
H A N D | S I L K
↓ ↓ ↓ ↓
I B O F | T J M L

(2) Reverse coding :- (+1, +2, +3, ---, -1, -2, -3)

(#)
S I L K
| LMJT
→ → → →
H A N D
E O B I

(3) Cross coding :- (+1, +2, +3, ---, -1, -2, -3)

(#)
S I L K
| JTLM
X X
H A N D
B I E O

1) W R I T E M I G H T

W R I T E	M I G H T
↓ ↓ ↓ ↓ ↓	↓ ↓ ↓ ↓ ↓
V A H S D	L H F G S

2) +2 +2 +2 +2 +2 +2 +2 +2 +2 +2
 C H A I R T A B L E

C H A I R	T A B L E
↓ ↓ ↓ ↓ ↓	↓ ↓ ↓ ↓ ↓
E J C K T	V C D N G

3) -3 -3 -3 -3 -3 -3 -3 -3 -3 -3
 S H Y A M P I N K V

S H Y A M	P I N K V
↓ ↓ ↓ ↓ ↓	↓ ↓ ↓ ↓ ↓
J X V E P	R H K F M

4) +2 -3 +2 -3 +2 -3 +2 +2 -3 +2 -3 +2 -3 +2
 M O T H E R S B R O U G H T

M O T H E R S	B R O U G H T
↓ ↓ ↓ ↓ ↓ ↓	↓ ↓ ↓ ↓ ↓ ↓
O L V E G O U	D O Q R I E V

5) +3 -3 +3 -3 +3 -3 +3 -3 +3 -3 +3 -3
 P R A M O D K E S H A V

P R A M O D	K E S H A V
↓ ↓ ↓ ↓ ↓ ↓	↓ ↓ ↓ ↓ ↓ ↓
S O D J R A	N B V E D S

6) -3 -3 -3 -3 -3 -3 -3 -3 -3 -3
 C H A I R T A B L E

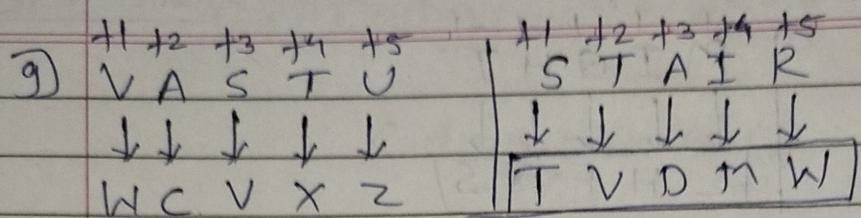
C H A I R	T A B L E
↓ ↓ ↓ ↓ ↓	↓ ↓ ↓ ↓ ↓
O F X E Z	B I Y X Q

7) +3 +3 +2 +2 +1 +1 +3 +3 +2 +2 +1 +1
 D A N C E R P U B L I C

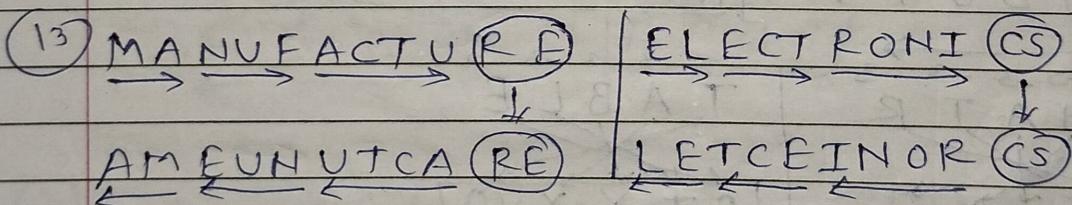
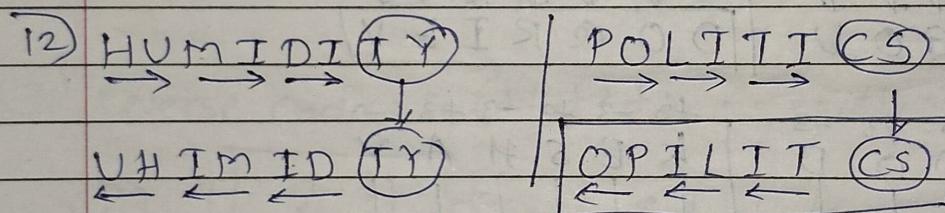
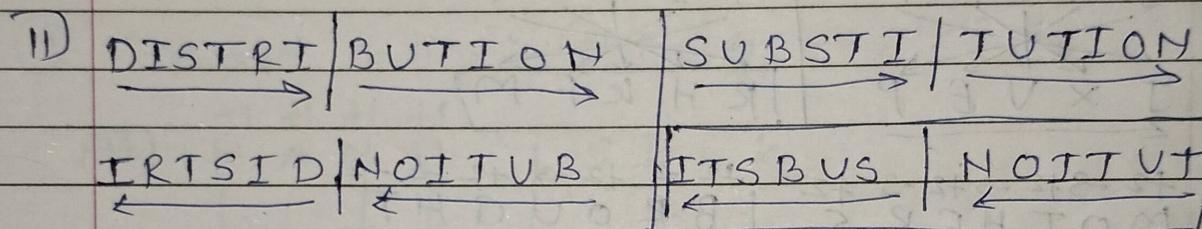
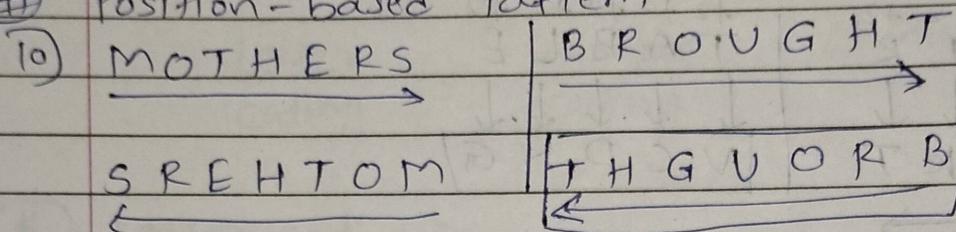
D A N C E R	P U B L I C
X X X	X X X
D G E P S F	X S H D D J

8) +2 +2 +2 +2 +2 +2 +2 +2
 R A I L R E A D

R A I L	R E A D
X X X	X X X
K C T N	C G T A



(#) Position-based Pattern



(#) Opposite position pattern:-

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

(14)	11 9 14 7 K I N G ↓ ↓ ↓ ↓ P R M T 16 18 13 20	18 1 9 12 R A I L ↓ ↓ ↓ ↓ I Z R O g 26 18 15
------	---	--

(15)	8 1 14 4 H A N D ↓ ↓ ↓ ↓ S Z M W 19 26 13 23	19 9 12 4 S I L K ↓ ↓ ↓ ↓ H R O P 8 18 15 16
------	--	--

(16)	8 1 14 > 9 H A N D W M Z S 22 13 26 19	19 9 12 > 11 S I L K P O R H 16 15 18 8
------	---	--

Trick:- Alphabet to Alphabet

① sequence match

② answer in coding-decoding.

22/12/2024

PAGE NO.:
DATE: / /

② Number coding $\Rightarrow (A \rightarrow)$
 $(1 \rightarrow 2)$

1	2	3	4	5	6	7	8	9	10	11	12	13
A	B	C	D	E	F	G	H	I	J	K	L	M

Z	Y	X	W	V	U	T	S	R	Q	P	O	N
26	25	24	23	22	21	20	19	18	17	16	15	14

① CAT $\rightarrow 24$
 $3+1+20$

SAD $\rightarrow 24$
 $19+1+4$

SHB $\rightarrow [32]$
 $19+8+5$

ATR $\rightarrow 2$

STALL $\rightarrow (1)$

Vowels = a, e, i, o, u

② DEEP $\rightarrow 60$
 $4+5+5+16=30 \times 2$

RABBIT $\rightarrow 100$
 $18+1+2+9+20=50 \times 2$

HATR $\rightarrow [72]$
 $8+9+18=36 \times 2$

5 T O $\rightarrow 19$
Opposite Position
Sum $20+15$
 $[7+12]$

M Y $\rightarrow 16$
 $[14+2]$

H E $\rightarrow (41) \leq$
 $[19+22]$

③ E $\rightarrow 5$
 $5/1$

HOTEL $\rightarrow 12$
 $8+15+20+5+12 \Rightarrow 60/5$

LAMB $\rightarrow (7)$
 $12+1+13+2=28/4$

⑥ ACNE \rightarrow
1 3 14 5
 $(x2+1) \downarrow \quad x2 \quad | \quad x2 \quad | \quad x2$
 $3-7-29-11$

BOLT \rightarrow
2 15 12 20
 $(x2+1) \downarrow \quad x2 \quad | \quad x2 \quad | \quad x2 \quad | \quad x2$
 $5-31-25-40$

No. of vowels coding

④ KITERS $\rightarrow 2$

MONDAY $\rightarrow 2$

⑦ WORK \rightarrow
23 15 18 11
Opposite Position
 $4-12-9-16$

DONE \rightarrow
4 15 14 5
Opposite Positions
 $23-12-13-22$

8) WORK

23	15	18	11
✓	✓	✓	✓
+	+	+	+
↓	↓	↓	↓
5	6	9	2

LOVE

12	15	22	5
✓	✓	✓	✓
+	+	+	+
↓	↓	↓	↓
3	6	4	5

9) K D J Q

11	4	10	17
✓	✓	✓	✓
+	+	+	+
8	1	4	2

P R M T

16	18	13	20
✓	✓	✓	✓
+	+	+	+
2	4	9	7

Trick :- Alphabet to Number

- ① Addition of Alphabet numbers
- ② Addition of Alphabet and reverse and reverse position value
- ③ ~~Answers~~ Answers in coding
- ④ Addition of Alphabet and Add +1, -1, +2 like and multiplication, double, division so on.

3) Mix coding :-

i) How [are] [you] → (nee) (tin) fu

[are] [you] there → (tin) se (nee)

i) How → (fu)

ii) There → (se)

iii) are → [nee or tin]

iv) you → [nee or tin]

2) she (is) good → 1 (2) (5)
 (is) he bad → (5) 7 9
 are we (good) → (2) 8 4

i) She ⇒ (1) ✓

ii) we bad ⇒ a) 48 b) 79 c) 36 d) 98
 8/4 7/9 X X X

iii) we ⇒ a) 2 b) 8 c) 4 d) 4 or 8
 4 or 8

* iv) are he go ⇒ a) 369 b) 872 c) 378
 8/4 7/9 new X ↑ ↑
 already new
 in coding.

3) pit ng som → bring me water
 na jo tod → water is like
 tubs od pit → give me toy
 jo lin kot → like and death.

1) water → (na) ✓

2) me → (pit) ✓

3) like - (jo) ✓

4) is - (tod) ✓