

Target RBI Grade B 2023

Top 150 Questions

Reasoning ✓

Lecture 3 – Coding & Decoding, ✓ 35Q

Input output ✓ 5Q



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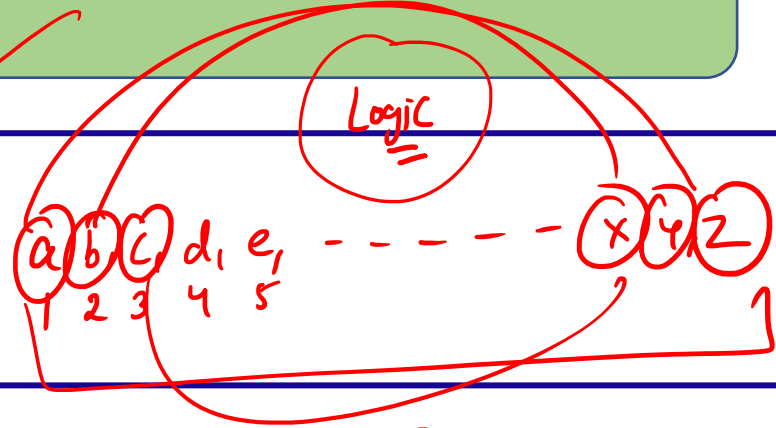
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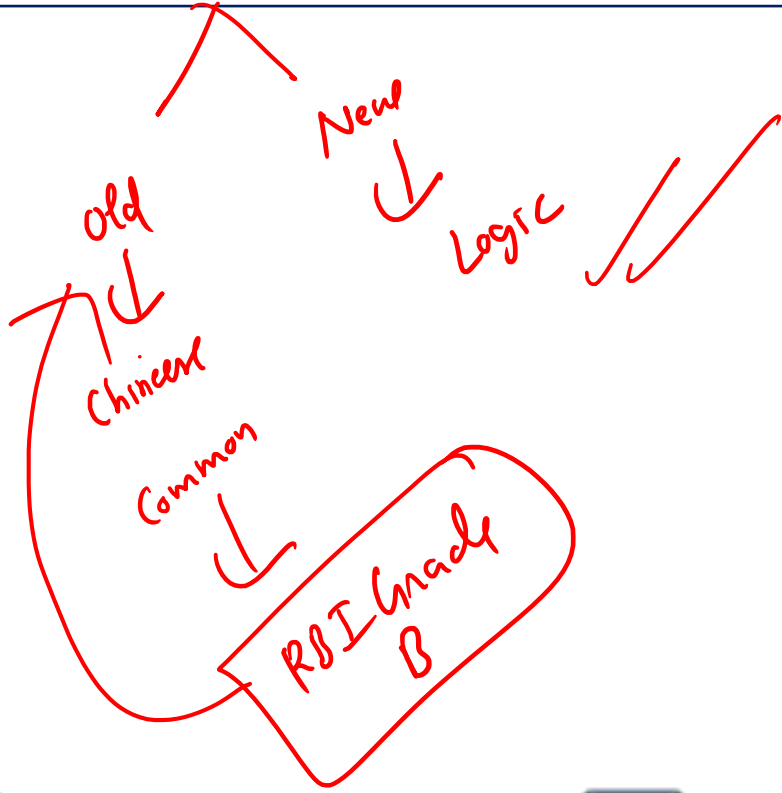
Basic need for Coding & Decoding, Machine Input Output

- Place value of alphabets ✓
- Opposite letters of alphabets ✓
- Type of Logics



Reverse - EDUTAP
Opposite - PATUDE
↓

1. LETTER CODING → Letter - Letter HE - SV SHE = ?
2. NUMBER CODING → Letter - Number HE = 13 SHE = ?
3. MIXED CODING → Letter, Number, Symbol



Two Sentences

I Love MY MOTHER
 9 11 15 22 5 13 25 13 15 20 8 5 18

LETTER - CODING

G 7
 B 9

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		

E J O T Y
 5 10 15 20 25

K=11 W=23
 S=19



Opposite Letters

a b c d . . . (x) (y) (z)
1 2 3 27 25 26

AZ	BY <i>Bye</i>
CX <i>Six</i>	DW <i>Dew</i>
EV <i>Evening</i>	FU <i>Four</i>
GT <i>GT Road</i>	HS <i>High School</i>
IR <i>Indian Railway</i>	JQ <i>Jungle Queen</i>
KP <i>Kanpur</i>	LO <i>Love</i>
MN <i>Men</i>	

Sum of place value of opposite letters = 27



Q1. If MOTHER is code~~d~~ as IVSGLN, then what is the code of FARMER?

- a) IVLIZU
- b) IVINZU
- c) IVNIZU
- d) IVNIYU
- e) None of these

13 15 20 8 5 18
M O T H E R
~~1 18 15 8 20 13~~
I V S G L N
9 22 19 7 12 14

FARMER
IVNIZU

Reverse - Opposite Letter



Q2. If HERMONY is code as SVINLMB, then what is the code of MEMORY?

- a) NVNKIB
- b) NVNLIB
- c) NVMLIB
- d) NVNLJB
- e) None of these

HERMONY
SVINLMB

MEMORY
NVNLIB

Q3. In a certain language PHYSICS is written as CHIPSSY in the same way HISTORY will be coded as?

1. HIOSPTY
2. HIORTSY
3. HIORSYT
4. HIORSTY

✓ 16 8 25 19 9 3 19
✓ P H Y S I C S

✓ C H I P S S Y
✓ 3 8 9 16 19 19 25

H I S T O R Y
8 9 19 20 15 18 25
→ → → →

H I O R S ~~Y~~ T Y
✓



Q4. If A = 2, BAT = 26, then what is the code of BARE?

- a) 28
- b) 30
- c) 36
- d) 32
- e) None of these

① +1

A = 2

BAT = 26

2 1 20
23 + 3

BARE = ?
2 + 1 + 8 + 5 = 26 + 4 = 30

Sum of place Value + No. of letters



Q5. If DISPOSE is coded as EGTNPQF then, what is the code of COUNTRY?

- a) DMVLUPZ
- b) DLVMUPZ
- c) DMULVPZ
- d) DMVNUPZ
- e) None of these

4 9 19 16 15 19 5
 D I S P O S E
 +1 -2 +1 -2 +1 -2 +1
 E G T N P Q F
 5 7 20 14 16 17 6

3 15 21 14 20 18 25
 C O U N T R Y
 +1 -2 +1 -2 +1 -2 +1
 D M V L U P Z



Q6. If MOTHER is coded as RJYCJM and BROTHER is coded as GMTOMZW then, what is the code of CHAPTER?

- a) HCFKWZW
- b) HCFJYZW
- c) HCGKYZW
- d) HCFKYZW
- e) None of these

B 15 20 8
M O T H E R
+5 -5 +5 -5
R J Y C J M
18 10 25 3

2 18 15
B R O T H E R
G M T O M Z W
7 13 20

1 16 20 5 18
C H A P T E R
+5
H C F K Y Z W



Q7-8) Study the following information carefully to answer the given question:

Common
↓
old
↓
Chinese



'one apple daily please' is written as 'br pz nv qr', ✓

'is good fruit one' is written as 'qz pz tl uz',

'healthy eat best is' is written as 'ol hz lz qz'

'healthy apple best is' is written as 'br ol qz hz'.

one apple daily please	br	pz	nv	qr
"	"	"	qz	tl uz
"	"	"	"	ol hz lz
"	"	"	"	"

Q.7) Which of the following is the code for 'fruit' ?

- [1] tl
- [2] qr
- [3] uz
- [4] Either tl or uz
- [5] None of the above

Q.8) Which may be the following is the code for 'healthy daily help'?

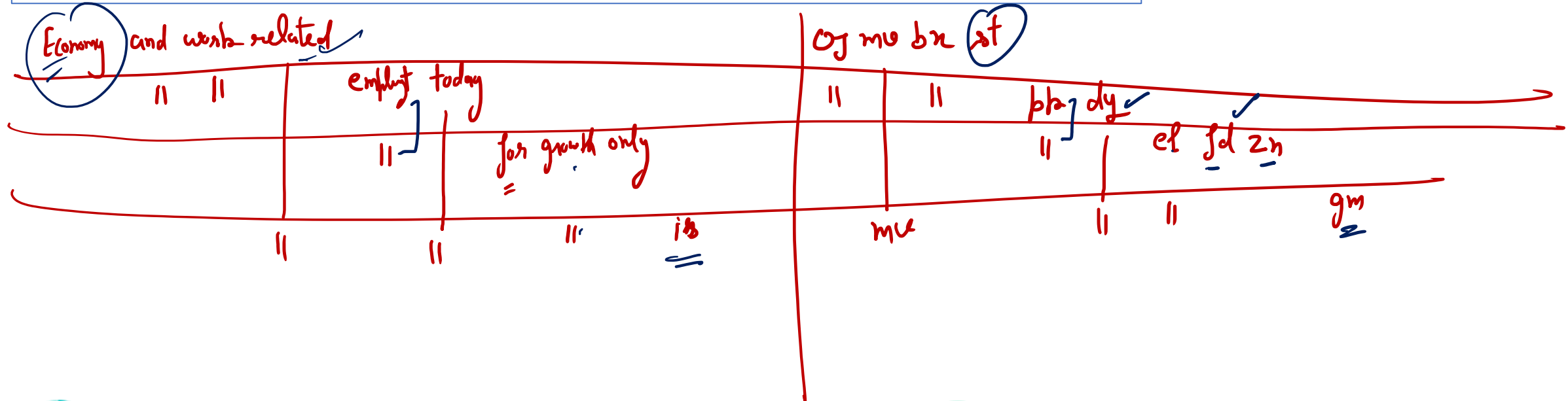
- [1] gr lz br ✗
- [2] pz tl dr ✗
- [3] ol qr gr
- [4] qz dr pz ✗
- [5] None of the above

ol/hz
nu/qz

None



Direction (9-13) : Study the following information to answer the given questions: In a certain code language,
Economy and work related is written as 'oj mv bx st'
Work and employment today is written as 'pk bx oj dy'
Employment for growth only is written as 'el pk fd zn'
Growth is related today is written as 'el dy gm mv'
 (All codes are two letter codes only)



Q9. If the code for 'related people only' is '(fd mv xd)' then what may be the code for 'people for decision' in the given code language?

A. Tu xd mv X

B. Zn xd fd X

C. Zn xd dy X

D. Zn kz xd

E. Kz fd xd X

fd/mv related people only

xd zn

Q10. What does the code 'pk' stand for in the given code language?

A. Growth

B. Employment

C. Only

D. Economy

E. Today

Q11. What may be the code for 'economy is boosting' in the given code language?

A. Gm rc st

B. Zn gm st

C. Ye st el

D. Cp st rc

E. St bx gm

Home Work

Q12. Which of the following additional statements is required to definitely find the code of 'and' in the given code language?

A. 'work and prosper now' is written as 'bx yp jn oj'

B. 'work today also important' is written as 'qr en oj dy'

C. No additional statement is required to find the code.

D. 'And more work today' is written as 'zl oj dy bx'

E. 'related only for employment' is written as 'mv zn fd pk'



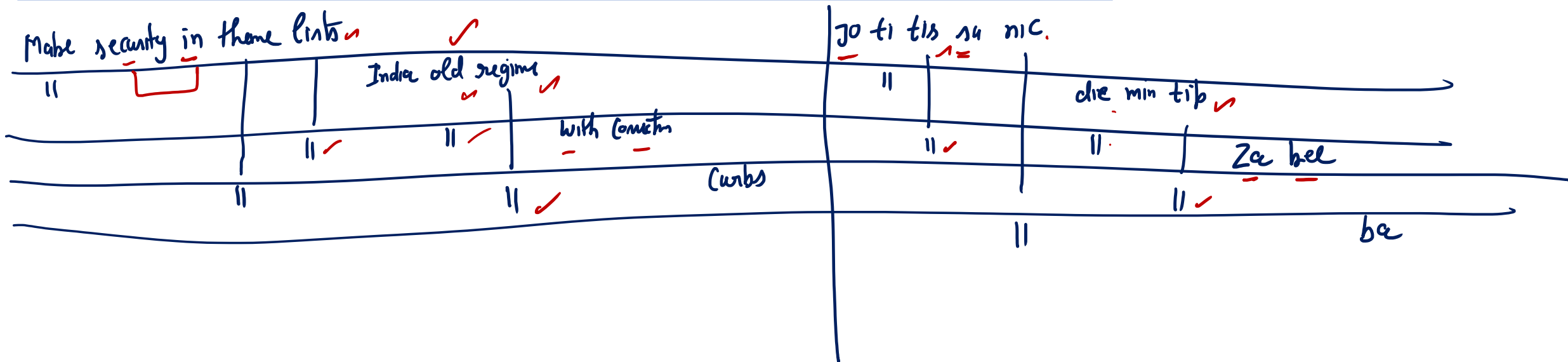
Direction (13 – 16) : Study the following information to answer the given questions: In a certain code,

‘make security in theme lists’ is written as ‘jo ti tis su nic’,

‘India make old regime’ is written as ‘die min tip ti’,

‘old lists with correction’ is written as ‘za tis die kee’ and

‘theme curbs regime’ is written as ‘tip ba nic’.



Q13. What is the code for 'security' ?

- A. jo ✓
- B. ti
- C. tis
- D. su ✓
- E. Can't be determined ✓

Q14. What does 'za' stand for?

- A. old
- B. lists
- C. correction ✓
- D. with ✓
- E. Either with or correction ✓

Q15. 'tis da tip' could be a code for which of the following?

- A. old regime lists *lists regime*
- B. regime lists arise ✓
- C. correction theme case X
- D. India with regime X
- E. None of these

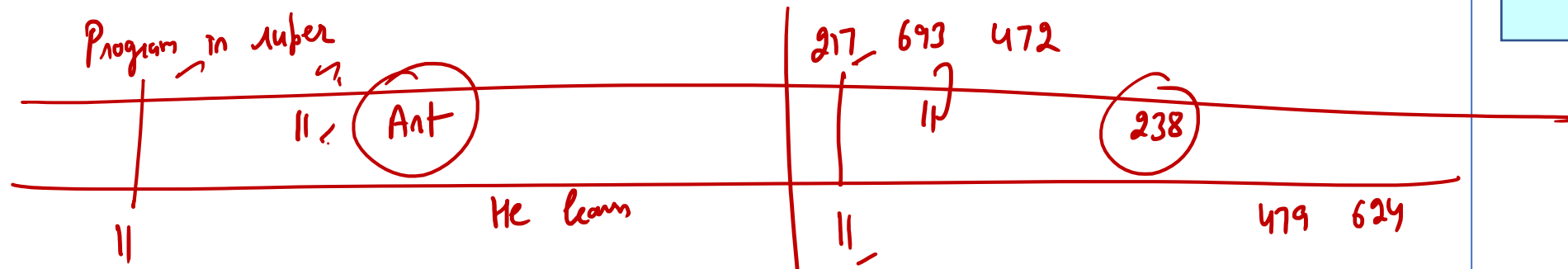
Q16. Which of the following may represent 'transparency in old security'?

- A. su die mac ti X *jo/su, die jo/m*
- B. die mac jo tip X
- C. die jo nic su X
- D. jo die su mac ✓
- E. None of these



Q.17) In a certain code language, “Program is super” is coded as “217 693 472”, “Super Art” is coded as “693 238”, “He learns program” is coded as “217 479 624”, then what is the sum of the code for “Program Art”?

- A. 696
- B. 689
- C. 1103
- D. 910
- E. 455



$$\begin{aligned} 217 + 238 \\ = 455 \end{aligned}$$



Study the following information carefully to answer the given questions. In a certain code language:-

“Books new career” is written as ‘E21 O21 N37’

“There old houses” is written as ‘S27 O19 E25’

“Liquid water power” is written as ‘W34 T41 U16’

Number → Sum of place value of Int letter from both side

Letter → 3rd from right

Q.18) “Population” will be coded as?

[a] N25

[b] I30

[c] E20

[d] P15

[e] O25

Q.19) “Bag” will be coded as?

[a] None of these

[b] B8

[c] A10

[d] A9

[e] B9

BOOKS
2 15 15 11 19

THERE
20 8 5 18 5
E 25

Study the information given below and answer the questions based on it.

In a certain code language,

"Party of United States" is written as "@3w,@1U,#1B @2H "

"Economic and health sectors" is written as "#1W, #2H, @2S, @4X"

"Fighting many social stigmas" is written as "@3O, #2H, @2T, @1B"

"International diplomacy and cooperation" is written as "#6O, #1W, #3B, #6M"

Symbol < @ - Even
- Total No. of letters odd
Number → Total No. of vowels
Letter → Opposite letter of First letter from right



Total No. of m

Q20. What is the code for 'Edutap'?

(a) 3K

- [1] #2K
- [2] @2K
- [3] #3K
- [4] @3K
- [5] None of these

Q21. What is the code for 'Behavior'?

(a) 4I

- [1] #4I
- [2] @4I
- [3] #3I
- [4] @3I
- [5] None of these

UNITED AND
21 14 9 20 5 4 1 14 31

PART Y
1 B



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When a word and number arrangement machine is given an input line of words and numbers, it arranges them following a particular rule. The following is an illustration of input and its rearrangement (All the numbers are two-digit numbers).

Input: ³not ⁴10 ⁵bold ⁶21 curse hockey 31 28 49 44 ✓

Step I: 10 21 not bold curse hockey 31 28 49 44

Step II: not bold 10 21 curse hockey 31 28 49 44

Step III: 28 31 not bold 10 21 curse hockey 49 44

Step IV: curse hockey 28 31 not bold 10 21 49 44

Step V: 44 49 curse hockey 28 31 not bold 10 21

And Step V is the last step of the above arrangement as the intended arrangement is obtained . As per the rules followed in the given steps find out the appropriate steps for the given input.

Input: judge 20 12 gone ear 17 11 sitting 34 dinner arranges 29

Left Right

Word No. W+N

Left

- ① No. — Two No. ascending order
- ② word — Total No of Letters ascending order.
- ③ No
- ④ word

L+R



Input: judge 20 12 gone ear 17 11 sitting 34 dinner arranges 29

Step ① 11 12 judge 20 gone ear 17 sitting 34 dinner arranges 29

Step ② ear gone 11 12 judge 20 (17) sitting 34 dinner arranges 29 ✓

Step ③ 17 20 ear gone 11 12 judge sitting 34 dinner arranges 29

Step ④ judge dinner 17 20 ear gone 11 12 sitting 34 arranges 29 ✓

Step ⑤ 29 34 judge dinner 17 20 ear gone 11 12 sitting arranges ✓

Step ⑥ Sitting arranges 29 34 judge dinner 17 20 ear gone 11 12



Q22. How many steps will be required to complete the arrangement? ✓

- A. 5
- ✓ B. 6
- C. 7
- D. 8
- E. None of these

Q23. Which word/Number would be at the fifth place from the right in Step IV?

- A. 11
- B. ear
- ✓ C. 12
- D. gone
- E. None of these

Q24. How many elements are there between 'judge' and '34' in step II?

- A. One
- B. Two
- ✓ C. Three
- D. Four
- E. None of these

Q25. Which of the following represents the position of 'sitting' in step V?

- A. 1st from right
- B. 5th from left
- C. 6th from left
- ✓ D. 2nd from right
- E. None of these



I.26-30) Directions: Study the following information carefully and answer the question given below:

When a word and number arrangement machine is given an input line of words and numbers, it arranges them following a particular rule. The following is an illustration of an input and its rearrangement.

Input: steno 89 bike 17 Map 46 dog 67 Tame 55 Yak 24 Light 96
Step I: 18 steno 89 bike Map 46 dog 67 tame 55 24 light 96 xyak
Step II: cike 18 steno 89 map 46 dog 67 tame 55 24 light xyak 95
Step III: 23 cike 18 steno 89 map 46 dog 67 55 light xyak 95 uame
Step IV: cdog 23 cike 18 steno map 46 67 55 light xyak 95 uame 90
Step V: 45 cdog 23 cike 18 map 67 55 light xyak 95 uame 90 tteno
Step VI: klight 45 cdog 23 cike 18 map 55 xyak 95 uame 90 tteno 68
Step VII: 56 klight 45 cdog 23 cike 18 xyak 95 uame 90 tteno 68 lmap

And step VII is the last step of the above arrangement as the intended arrangement is obtained. As per the rules followed in the given steps, find out the appropriate steps for the given input.

Input: Car 11 Pack 62 Ignite 83 Too 48 Draw 29 Adieu 74 noon 33 ✓

Home work

↓
Comment

✓
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Input: Car 11 Pack 62 Ignite 83 Too 48 Draw 29 Adieu 74 noon 33

Step I → 12 Car Pack 62 Ignite 83 48 Draw 29 Adieu 74 noon 33 Moo

Step II → Bdiem 12 Car Pack 62 Ignite 48 Draw 29 74 noon 33 Moo 84

Step III → 30 Bdiem 12 Car 62 Ignite 48 Draw 74 noon 33 Moo 84 Opach

Step IV → bcar 30 bdiem 12 62 Ignite 48 Draw noon 33 Moo 84 Opach 73

Step V → 34 bcar 30 bdiem 12 62 Ignite 48 Draw Moo 84 Opach 73 mnoon

Step VI → cdraw 34 bcar 30 bdiem 12 Ignite 48 Moo 84 Opach 73 mnoon 61

Step VII → 47 cdraw 34 bcar 30 bdiem 12 Moo 84 Opach 73 mnoon 61 Ignite

Q.26) Which element is third to the right of the eighth from left end in step IV?

- [1] uoo
- [2] 84
- [3] bdieu
- [4] draw
- [5] 33

Q.27) which step has elements in these manner “bdieu 12 62 ignite”?

- [1] Step III
- [2] Step V
- [3] Step IV
- [4] Both step III and IV
- [5] Both step IV and V

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Q.28) Which of the following Step V has in the same manner?

- [1] uoo opack 73
- [2] ignite 48 uoo
- [3] 48 draw uoo
- [4] 12 ignite 48
- [5] 12 car 62

Q.29) which is the third element from left end in step II and third element from right in step VII respectively.

- [1] bdieu, opack
- [2] 34, 73
- [3] bcar, 61
- [4] car, mnoon
- [5] 12, mnoon



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Q.30) Which of the following is not right in any step?

- [1] 30 bdieu 12
- [2] draw uoo 73
- [3] uoo 84 opack
- [4] 47 cdraw 34
- [5] 73 mnoon 61



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