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Coding decoding questions for IBPS PO pre, IBPS SO pre, IBPS clerk, SBI PO pre and SBI clerk.

CODING DECODING QUIZ 37

Directions: Read the following information carefully and answer the questions given beside.

The values in Box 1 are coded as the values at their respective position in Box 2 on the basis of following conditions.

Box 1

TRY24	OWL7	BEN18
LKG12	AEU16	DVS49
UVA45	BOR36	PGT23

Box 2

USZ24	ODO7	YEM18
MLH12	UEA61	EWT49
FVZ45	YOI64	OFS5

Conditions:

If a grid:

1. Does not contain vowels:

(i). If the number attached is a prime number then change the consonants to their immediate previous letter as per English alphabet series and change the number as per sum of its digit(until single digit is obtained).

(ii). If the number attached is a composite number then change the consonants to their immediate next letter as per English alphabet series.

2. Does not contain consonants:

(i). If the number attached is even then arrange the letters within the word as per reverse alphabetical order and interchange the digits of the number.

(ii). If the number attached is odd then arrange the letters within the word as per alphabetical order.

3. Contains both vowels and consonants:

(i). If the number is a perfect square then change the consonants to their reverse letters as per the English alphabet series and subtract the number from 100.

(ii). If the number is not a perfect square then change the vowels to their reverse letters as per the English alphabet series.

As per the given illustration and conditions find the values of Box 2 for the following.

Box 1

COR43	IOU24	DAC11
GCS38	NIA81	FDB16
JOY9	ERT39	IOA25



Box 2

Questions:

1. What is the value of 'FDB16' and 'IOA25' respectively in Box 2?

- A. EDB16 and AEC25 B. GIO16 and ZEX25 C. GEC16 and AIO25
D. GIO16 and AEC25 E. None of these

2. What is the difference between the sum of odd numbers and the sum of even numbers of Box 2?

- A. 215 B. 132 C. 104
D. 68 E. None of these

3. What is the sum of all prime numbers of box 2?

- A. 73 B. 98 C. 56
D. 140 E. None of these.

4. Which letter does not come in box 2?

- A. H B. F C. C
D. G E. A

5. What will be the product of the largest prime number and the smallest even number of box 2?

- A. 729 B. 176 C. 1806
D. 144 E. 688

Correct answers:

1	2	3	4	5
C	B	A	B	E

Common Explanation:

Reference:

Conditions:

If a grid:

1. Does not contain vowels:

(i). If the number attached is a prime number then change the consonants to their immediate previous letter as per English alphabet series and change the number as per sum of its digit(until single digit is obtained).

(ii). If the number attached is a composite number then change the consonants to their immediate next letter as per English alphabet series.

2. Does not contain consonants:

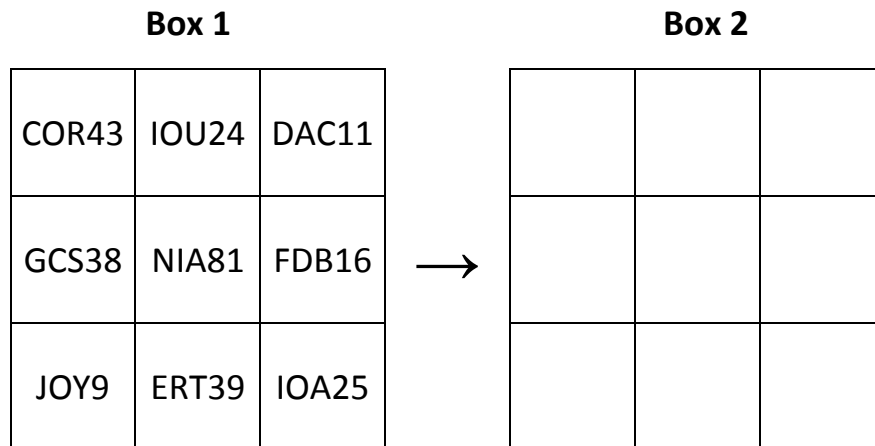
(i). If the number attached is even then arrange the letters within the word as per reverse alphabetical order and interchange the digits of the number.

(ii). If the number attached is odd then arrange the letters within the word as per alphabetical order.

3. Contains both vowels and consonants:

(i). If the number is a perfect square then change the consonants to their reverse letters as per the English alphabet series and subtract the number from 100.

(ii). If the number is not a perfect square then change the vowels to their reverse letters as per the English alphabet series.



Inference:

Logic for numbering of grid used here, The top left grid is termed as first and the numbering progresses from left to right Thus the first left grid of second row is termed as fourth and so on.

Following table shows the conditions that are applicable to the various grids as per which the values of Box 2 are obtained.

Conditions applicable	Grid no.
3(ii)	1
2(i)	2
3(ii)	3
1(ii)	4
3(i)	5
1(ii)	6
3(i)	7
3(ii)	8
2(ii)	9

Final Coding:

Box 1

COR43	IOU24	DAC11
GCS38	NIA81	FDB16
JOY9	ERT39	IOA25



Box 2

CLR43	UOI42	DZC11
HDT38	MIA19	GEC16
QOB91	VRT39	AIO25



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Explanations:

1.

Values of 'FDB16' and 'IOA25' respectively in Box 2 are GEC16 and AIO25 respectively.

Hence option C is correct.

2.

Sum of odd numbers = $43 + 11 + 19 + 91 + 39 + 25 \Rightarrow 228$

Sum of even numbers = $42 + 38 + 16 \Rightarrow 96$

Required difference = $228 - 96 \Rightarrow 132$

Hence option B is correct.

3.

Sum of all prime numbers = $43 + 11 + 19 \Rightarrow 73$

Hence option A is correct.

4.

In the following common explanation it is clear that F does not come in box 2.

Hence option B is correct.

5.

The largest prime number = 43

The smallest even number = 16

Product = $43 \times 16 \Rightarrow 688$

Hence option E is correct.



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