New Pattern Input Output – Set 1

An arrangement machine, when given a particular Input, rearranges it following a particular rule in each step. The following is the illustration of the input and the steps of arrangement.

Input :-	A F	U E	W Q	H K	I V	D T
STEP 1-	U E	P C	Q N	B H	D T	X S
STEP 2-	3 5	7 3	8 5	2 8	4 2	6 1
STEP 3-	1 3	3 1	2 4			
STEP 4-	2 0					
STEP 5-	0					

Step 5 is the last step for this input.

As per rules followed in the above step, give answer the following questions.

Input :-	S I	G C	R L	F X	O M	N K

Q.1 Which of the following is third to the right in step 1?

a) SA

b) RU

c) GL

d) GM

e) none of these

Q.2 which of the following will be Step 1 for the above input?

a) Mk JL AS GN RU FP

b) KN JL SA GM RV FP

c) JL KM GM SA RU EO

d) KN JL SA GL RV EO

e) none of these

Q.3 Which of the following will be step 3 for the above input?

a) 36 17 78

b) 99 17 67

c) 53 81 57

d) 51 81 56

e) none of these.

Q.4 what could be the value of final step for this input?

a) 4

b) 6

c) 8

d) 10

e) none of these.

Q. 5 Which of the following is third to right of 13 in step 2?

a) 74

b) 94

c) 67

d) 84

e) none of these.

Answers & Solutions:

1. D
2. B
3. D
4. C
5. B

Ans.-

Input :-	S	I		G	C		R	L		F	X		O	M		N	K
STEP 1-	K	N		J	L		S	A		G	M		R	V		F	P
STEP 2-	2	5		1	3		1	1		7	4		9	4		6	7
STEP 3-	5	1		8	1		5	6									
STEP 4-	2	4															
STEP 5-	8																

Step 1- Exchange the places by taking their opposite alphabet and then subtract 2 places.

Step 2- Place value of alphabet. If exceeds 9 then add them to make single digit.

Step 3- Difference between the numbers.

Step 4- Add odd and even no. separately and then take their difference.

Step 5- Multiply the numbers.

An arrangement machine, when given a particular Input, rearranges it following a particular rule in each step. The following is the illustration of the input and the steps of arrangement.

Input:	23	10	27	19	17	7	21	15
Step1:	S	N	X	V	O	I	T	P
Step2:	23	21	18	13	19	15	14	8
Step3:	15	7	3	6				
Step4:	8	3						
Step5:	2							

Step 5 is the last step for this input.

As per rules followed in the above step, give answer the following questions.

Input:	20	13	14	21	19	16	9	22

Note: No step had multiplications.

Q.1 what is the third step of the above input?

a) 6   7   7   8

b) 7   7   6   9

c) 7   7   7   9

d) 9   7   7   6

e) None of these.

Q.2 what could be the fourth step of the above input?

a) 0   7

b) 9   0

c) 2   0

d) 0   2

e) None of these.

Q.3 which of the following is third to the right in step 2?

a) 7

b) 16

c) 22

d) 23

e) None of these.

Q.4 which of the following is fourth to the left in step 2?

a) 15

b) 16

c) 22

d) 23

e) none of these.

Q.5 what is the last step of above input?

a) 0
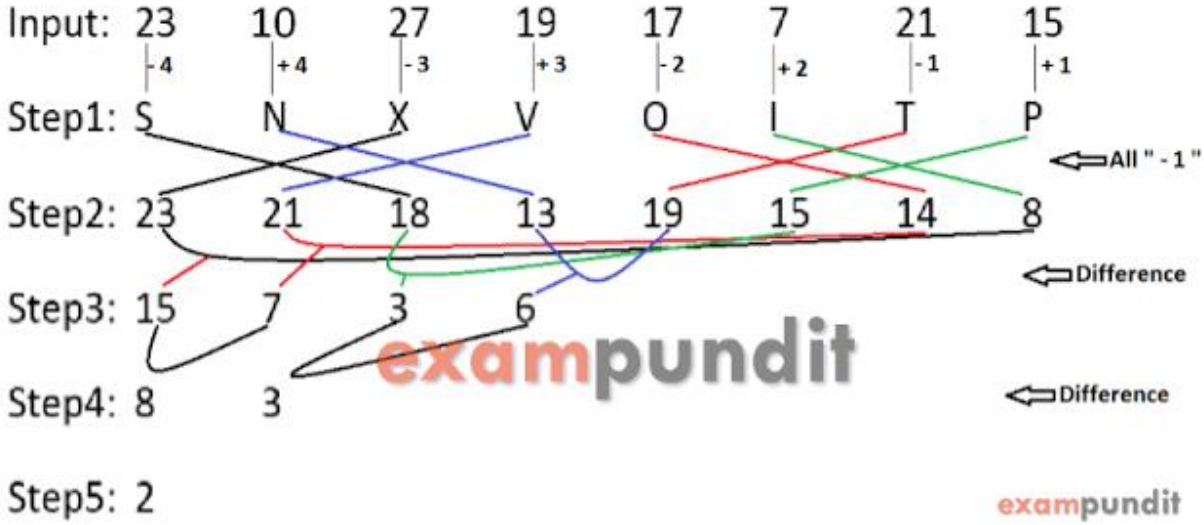
b) 4

c) 1

d) 2

e) none of these.

Answers

1. C
2. D
3. C
4. B
5. D

Explanation-

Input: 23   10   27   19   17   7   21   15
        |-4 |+4 |-3 |+3 |-2 |+2 |-1 |+1
Step1: S   N   X   V   O   I   T   P
                                                                    ⇐ All " -1 "
Step2: 23   21   18   13   19   15   14   8
                                                                    ⇐ Difference
Step3: 15   7   3   6
                                                                    ⇐ Difference
Step4: 8   3

Step5: 2

Step 3 – 1st place (Difference between 1st and last digit of step 2)

 2nd place (difference between 2nd and 2nd last digit of step 2)

 3rd place (difference between 3rd and 3rd last digit of step 2, and so on.)

Step 4 – Difference of 1st & 2nd digit and 3rd & 4th digit.

Step 5- Addition of both the digits. If the value exceeds 9, then add them to make a single digit.

Visit www.exampundit.in for more materials

Q. (1-5) The following is the illustration of the input and the steps of arrangement.

| Input:- | 13 | 7 | 19 | 23 | 10 | 15 | 4 | 9 |

| Step 1- | U | O | E | I | M | R | S | X |

| Step 2- | 6 | 4 | 5 | 5 |

| Step 3- | 0 | 2 |

| Step 4- | C |

Step 4 is the last step. No step had multiplication.

As per rules followed in the above step, give answer the following questions.

| Input:- | 15 | 11 | 25 | 17 | 6 | 14 | 8 | 3 |

Q.1 what is the third step of above input?

(a) 4, 4

(b) 3, 4

(c) 4, 5

(d) 4, 3

(e) None of these.

Q.2 what is the last step of above input?

(a) D

(b) F

(c) H

(d) J

(e) None of these.

Q.3 which of the following is fourth to the left in step 1?

(a) K

(b) N

(c) M

(d) C

(e) None of these.

Q.4 what is the second step of above input?

(a) 8   4   5   6

(b) 4   8   5   8

(c) 4   8   8   5
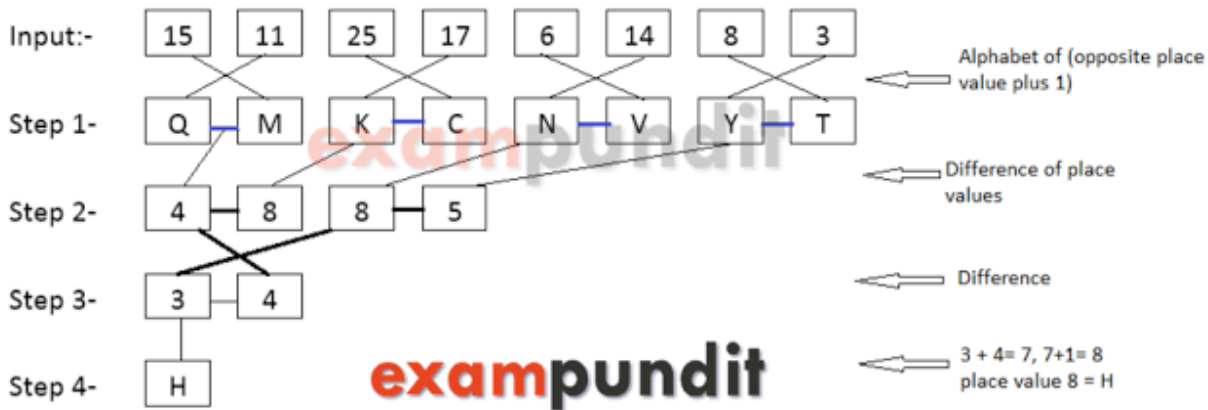
(d) 8   6   8   5

(e) None of these.

Q.5 which of the following is third to the right in step 1?

(a) Y

(b) M

(c) N

(d) V

(e) None of these.

Answers:

1. B
2. C
3. D
4. C
5. D

Explanations:

New Pattern Coding & Decoding – Set 1

Given below is a set of sentences along with their codes in a specific machine language.

Watched pot never boils -   4&g 13$u 11#w 25$v

Beggars cannot choose - 24%w 24%h 25&v

Familiarity breeds contempt - 25%v 24*w 21+b

Counsel is no command - 24&o 18@v 24&g 13@r

According to the above coding pattern, answer the following questions:

1. What will be the code for " bemuzzle fuzzed" ?

a) 21%g 25*h

b) 21*g   25%h

c) 20%r   16&t

d) Either a or b

e) None

2. "ace" will be coded as?

a) 20%t

b) 3&t

c) 26#h

d) 26*t

e) None

3. "muzzling as crazy" will be coded as?

a) 14*j 24$b 26@v

b) 24@j 14&b 20&t

c) 3&t 17+y 25&r

d) Either b or c

e) None

4. What will be the code for " scuzzy quick" ?

a) 10&t 18&e

b) 10&n 17%r

c) 8%b 10$n

d) Either b or c

e) None

5. "17$b" will be the code for?

a) Jamie

b) Jammy

c) Yummy

d) Tommy

e) Fanny

Answers:

1. Ans-a

2. Ans-c

3. Ans-a

4. Ans-c

5. Ans-b

Solution-

Every code consists of three parts- a number (either 1 or 2 digit) , a symbol and a letter of English alphabet.

The number in the code is the reverse numeric value of the first letter of the word

For example 4=w, 11=p, 13=n.

The symbol is coded with respect to the number of digits in the word.

By comparing the common terms of codes and eliminating we get the following :

2=@

3=#

5=$

6=%

7=&

8=*

11=+

The letter in the code is the alphabet two places to left of the last letter of the word.

For example in the word never, r is the last letter hence the last part of the code will be r+2=u

Hence the words and their codes are:

Watched	pot	never	boils
4&g	11#w	13$u	25$v

Beggars	cannot	choose
25&v	24%w	24%h

Familiarity	breeds	contempt
21+b	25%v	24*w

Counsel	is	no	command
24&o	18@v	13@r	24&g

Study the following information carefully and answer the questions that follow.

'she is studying' is coded as '39studyint 27shv 28ih'

'girls like drawing' is coded as '21likv 22drawint 16girlh'

'boys are playing' is coded as '28playint 19arv 17boyh'

1. Which of the following is the code for 'boys like studying'?

a) 39studyint 21likes 17boyh

b) 17boyh 29likv 21studyint

c) 17boyh 29studyint 21kikv

d) 21likv 17boyh 39studyint

e) cannot be determined

2. Which of the following is the code for 'girls like playing'?

a) 21playint 16likv 28girlt

b) 28likv 16girlt 21playint

c) 21girlt 16playint 28likv

d) 28playint 21likv 16girlh

e) none of these

3. Which of the following is the code for 'reasoning is fun'?

a) 28ih 27reasonint 27fum

b) 23reasonint 27fum 28ih

c) 27fun 23reasonint 28ih

d) cannot be determined

e) none of these

4. Which of the following is the code for 'like poles repel'?

a) 21likv 31repeo 23polet

b) 31repeo 21polet 23likv

c) 21likv 23repeo 31polet

d) cannot be determined

e) none of these

5. Which of the following is the code for 'shreya likes watching movies'?

a) 28moviet 21likeh21watchint 27shreyz

b) 21likes 28movies 27shreya 24watching

c) 21likeh 28moviet 27shreyz 24wathint

d) 24watchint 21likeh 27shreyz 28moviet

e) none of these
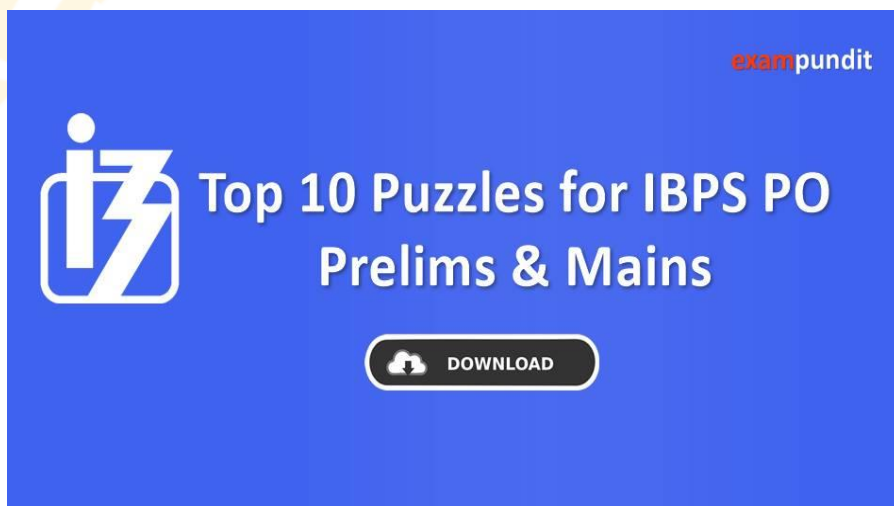
Solutions

1. D
2. D
3. B
4. E
5. E

Logic for coding decoding:

Firstly, the numeric value before respective codes is the addition of numeric value of the first two alphabets in the respective word followed by the word itself where the last alphabet in the word is replaced by its reversal

For example - 'studying' is coded as '39studyint'

39= 19(S)+20(T)

and 'g' is replaced by its reversal 't'