III. If first letter of the word is consonant and last letter is vowel then both are to be coded as the code of third letter.

IV. If both first and last letter are vowels then the code with even numbered digits is replaced with "2".

V. If the middle letter of the word is consonant, then all the vowels present in the word will be coded as "B"

If more than one condition applies for a word then, both the codes will be the answer

41) What will be the code of ASHDOD?
a) 20202014#20
b) 20202214#18
c) 20202214#16
d) 20202214#14
e) 20202214#12

42) What will be the code of QUALITY?
a) 9$&9%99
b) 16BB26B2212
c) Both A and B
d) 16BB26B2210
e) Both B and D

43) What will be the code of CLASSMATE?
a) 26&&202010&22&
b) &26&202010&22&
c) 1226B202010B22B
d) Both B and C
e) Both A and B

44) What will be the code of OFFICE?
a) ##2%2@
b) #2#%2@
c) #22%2@
d) #22%2%
e) #22%%%

45) What will be the code of LOOKOUT?
a) 9##9#$9
b) 26BB24BB22
c) Both A and B
d) Both A and E
e) 28BB24BB22

(Direction 46-50): Study the following information carefully and answer the given questions:

In alphabetical series A-Z each letter except vowels is assigned a different number starting with first five letters will have the code of first five multiple of 11 (for ex- B is coded as 11, C-22, D-33) and next four letters will have the code of first four multiple of 13 and then again next four letters will have the code of first four multiple of 17 and after that next five letters will have the code of first five multiple of 19 and at last next four letters will have the code of first four multiple of 21 and at last Z will be coded as 1. Also, each vowel is coded with different symbol viz. &, @, %, # and $ respectively.

In a coded language:

Get Your Test: 26@95 84#$57 95@7695

Besides the above example, following operations are to be applied for coding the words given in the question below:

I. If first letter of the word is vowel and last letter is consonant then the codes of both of them will be code of the second letter.

II. If both first and last letter of the word are consonants then the even digit codes of the word will be replaced with "9".

III. If first letter of the word is consonant and last letter is vowel then both are to be coded as the code of third letter.

IV. If both first and last letter are vowels then the code with even numbered digits is replaced with "2".

V. If the middle letter of the word is consonant, then all the vowels present in the word will be coded as "B"

If more than one condition applies for a word then, both the codes will be the answer

46) What is the code of EXPORT?
a) 636319#5763
b) 663319#5763
c) 636919#5763
d) 633319#5763
e) 666319#5763

47) What is the code of TERMINAL?
a) 95@5751119&9
b) 95@5751%969
c) 95@5751%9&9
d) 90@5751%9&9
e) 99@5751%9&9

48) What is the code of FREE?
a) $57@@
b) %57@@
c) *57@@
d) ^57@@
e) @57@@

49) What is the code of AUSTRIA?
a) &$29557%&
b) BB769557BB
c) Both A and B
d) AB209557BB
e) Both A and D

50) What is the code of CALLING?
a) 8&99%99
b) 9&99%99
c) 22B3434B6826
d) Both B and C
e) 9999%99

Coding Decoding Symbol Alphabet Based – Answer and Explanation

Answers (1-5):

1) D
2) A
3) B
4) C
5) E

Solutions (1-5):

1)
Code for consonant and vowels are:

Consonant	**B**	**C**	**D**	**F**	**G**	**H**	**J**	**K**	**L**	**M**	**N**	**P**	**Q**	**R**	**S**	**T**	**V**	**W**	**X**	**Y**	**Z**
Code	**2**	**4**	**6**	**8**	**10**	**12**	**14**	**16**	**18**	**2**	**4**	**6**	**8**	**10**	**12**	**14**	**16**	**18**	**2**	**4**	**6**

Vowel	**A**	**E**	**I**	**O**	**U**
Code	**$**	**%**	**^**	**&**	*****

Code of **"PILOT"** will be **6^18&14**

Now condition number I and V will be applied to word **PILOT** and after that the code of the word **PILOT** will be **&^18&14 and !^18&!**

2)
Code for consonant and vowels are:

Consonant	**B**	**C**	**D**	**F**	**G**	**H**	**J**	**K**	**L**	**M**	**N**	**P**	**Q**	**R**	**S**	**T**	**V**	**W**	**X**	**Y**	**Z**
Code	**2**	**4**	**6**	**8**	**10**	**12**	**14**	**16**	**18**	**2**	**4**	**6**	**8**	**10**	**12**	**14**	**16**	**18**	**2**	**4**	**6**

Vowel	**A**	**E**	**I**	**O**	**U**
Code	**$**	**%**	**^**	**&**	*****

Code of **"INDIA"** will be **^46^$**

Now condition number II will be applied to word **INDIA** but in the code of the word there is no code ending with 0 so, code of the word **INDIA** will be **^46^$**

3)

Code for consonant and vowels are:

Consonant	B	C	D	F	G	H	J	K	L	M	N	P	Q	R	S	T	V	W	X	Y	Z
Code	2	4	6	8	10	12	14	16	18	2	4	6	8	10	12	14	16	18	2	4	6

Vowel	A	E	I	O	U
Code	$	%	^	&	*

Code of **"FORMULA"** will be **8&102*18$**

Now condition number III will be applied to word **FORMULA** and after that the code of the word **FORMULA** will be **8101010*18$**

4)

Code for consonant and vowels are:

Consonant	B	C	D	F	G	H	J	K	L	M	N	P	Q	R	S	T	V	W	X	Y	Z
Code	2	4	6	8	10	12	14	16	18	2	4	6	8	10	12	14	16	18	2	4	6

Vowel	A	E	I	O	U
Code	$	%	^	&	*

Code of "SHIPPING" will be 1212^66^410

Now condition number IV and V will be applied to word SHIPPING and after that the code of the word SHIPPING will be !12^66^4! and 1212^^^^^10

5)

Code for consonant and vowels are:

Consonant	B	C	D	F	G	H	J	K	L	M	N	P	Q	R	S	T	V	W	X	Y	Z
Code	2	4	6	8	10	12	14	16	18	2	4	6	8	10	12	14	16	18	2	4	6

Vowel	A	E	I	O	U

Code	$	%	^	&	*

Code of "TAJIKISTAN" will be 14$14^16^1214$4

Now condition number V and I will be applied to word TAJIKISTAN and after that the code of the word TAJIKISTAN will be 14$14^16^1214$4 and ^$14^16^1214$4

Answers (6-10):

6) C

7) A

8) D

9) E

10) B

Solutions (6-10):

6)

Code for consonant and vowels are:

Consonant	B	C	D	F	G	H	J	K	L	M	N	P	Q	R	S	T	V	W	X	Y	Z
Code	3	6	9	12	15	18	21	24	27	3	6	9	12	15	18	21	24	27	3	6	9

Vowel	A	E	I	O	U
Code	@	#	$	%	&

Code of "ANDHERI" will be @6918#15$

Now condition number I and V will be applied to word ANDHERI and after that the code of the word ANDHERI will be @69@#15$ and 86918#158

7)

Code for consonant and vowels are:

Consonant	B	C	D	F	G	H	J	K	L	M	N	P	Q	R	S	T	V	W	X	Y	Z
Code	3	6	9	12	15	18	21	24	27	3	6	9	12	15	18	21	24	27	3	6	9

Vowel	A	E	I	O	U

Code	@	#	$	%	&

Code of "REPLACEMENT" will be 15#927@6#3#621

Now condition number II will be applied to word REPLACEMENT and after that the code of the word REPLACEMENT will be *#@6#*#6***

8)

Code for consonant and vowels are:

Consonant	B	C	D	F	G	H	J	K	L	M	N	P	Q	R	S	T	V	W	X	Y	Z
Code	3	6	9	12	15	18	21	24	27	3	6	9	12	15	18	21	24	27	3	6	9

Vowel	A	E	I	O	U
Code	@	#	$	%	&

Code of "EQUIPMENT" will be #12&$93621

Now condition number III and II will be applied to word EQUIPMENT and after that the code of the word EQUIPMENT will be #12&$#6* and ##&#93#621**

9)

Code for consonant and vowels are:

Consonant	B	C	D	F	G	H	J	K	L	M	N	P	Q	R	S	T	V	W	X	Y	Z
Code	3	6	9	12	15	18	21	24	27	3	6	9	12	15	18	21	24	27	3	6	9

Vowel	A	E	I	O	U
Code	@	#	$	%	&

Code of "EAST" will be #@1821

Now condition number IV, II and I will be applied to word EAST and after that the code of the word EAST will be #@18#, #@18* and #@18#

10)

Code for consonant and vowels are:

Consonant	B	C	D	F	G	H	J	K	L	M	N	P	Q	R	S	T	V	W	X	Y	Z
Code	3	6	9	12	15	18	21	24	27	3	6	9	12	15	18	21	24	27	3	6	9

Vowel	A	E	I	O	U
Code	@	#	$	%	&

Code of "AFRICA" will be @1215$6@

Now condition number V and III will be applied to word AFRICA and after that the code of the word AFRICA will be @@15@6@ and 81215$68

Answers (11-15):

11) B
12) D
13) A
14) D
15) C

Solutions (11-15):

11) A
Code for consonant and vowels are:

Consonant	B	C	D	F	G	H	J	K	L	M	N	P	Q	R	S	T	V	W	X	Y	Z
Code	2	4	6	8	10	12	14	16	18	2	4	6	8	10	12	14	16	18	2	4	6

Vowel	A	E	I	O	U
Code	$	%	^	&	*

Code of "BOTTLE" will be 2&141418%

Now condition number I will be applied to word BOTTLE and after that the code of the word BOTTLE will be %&1414182

12)

Code for consonant and vowels are:

Consonant	B	C	D	F	G	H	J	K	L	M	N	P	Q	R	S	T	V	W	X	Y	Z
Code	2	4	6	8	10	12	14	16	18	2	4	6	8	10	12	14	16	18	2	4	6

Vowel	A	E	I	O	U
Code	$	%	^	&	*

Code of "AMERICA" will be $2%10^4$

Now condition number II and V will be applied to word AMERICA and after that the code of the word AMERICA will be $*%10^*$ and %2%10%4%

13)

Code for consonant and vowels are:

Consonant	B	C	D	F	G	H	J	K	L	M	N	P	Q	R	S	T	V	W	X	Y	Z
Code	2	4	6	8	10	12	14	16	18	2	4	6	8	10	12	14	16	18	2	4	6

Vowel	A	E	I	O	U
Code	$	%	^	&	*

Code of "AMAZON" will be $2$6&4

Now condition number III will be applied to word AMAZON and after that the code of the word AMAZON will be $2$6&$

14)

Code for consonant and vowels are:

Consonant	B	C	D	F	G	H	J	K	L	M	N	P	Q	R	S	T	V	W	X	Y	Z
Code	2	4	6	8	10	12	14	16	18	2	4	6	8	10	12	14	16	18	2	4	6

Vowel	A	E	I	O	U
Code	$	%	^	&	*

Code of "SANITIZER" will be 12$4^14^6%10

Now condition number IV and V will be applied to word SANITIZER and after that the code of the word SANITIZER will be ^$4^^^6%^ and 12%4%14%6%10

15)
Code for consonant and vowels are:

Consonant	B	C	D	F	G	H	J	K	L	M	N	P	Q	R	S	T	V	W	X	Y	Z
Code	2	4	6	8	10	12	14	16	18	2	4	6	8	10	12	14	16	18	2	4	6

Vowel	A	E	I	O	U
Code	$	%	^	&	*

Code of "CONGO" will be 4&410&

Now condition number I and V will be applied to word CONGO and after that the code of the word CONGO will be 4%410% and &&4104

Answers (16-20):

16) A
17) D
18) A
19) C
20) A

Solutions (16-20):

16)
Code for consonant and vowels are:

Consonant	B	C	D	F	G	H	J	K	L	M	N	P	Q	R	S	T	V	W	X	Y	Z

Code	3	6	9	12	15	18	21	24	27	3	6	9	12	15	18	21	24	27	3	6	9

Vowel	A	E	I	O	U
Code	@	#	$	%	&

Code of "ENGAGEMENT" will be #615@15#3#621

Now condition number I will be applied to word ENGAGEMENT and after that the code of the word ENGAGEMENT will be 15615@15#3#615

17)

Code for consonant and vowels are:

Consonant	B	C	D	F	G	H	J	K	L	M	N	P	Q	R	S	T	V	W	X	Y	Z
Code	3	6	9	12	15	18	21	24	27	3	6	9	12	15	18	21	24	27	3	6	9

Vowel	A	E	I	O	U
Code	@	#	$	%	&

Code of "ESTONIA" will be #1821%6$@

Now condition number II, IV and V will be applied to word ESTONIA and after that the code of the word ESTONIA will be #S#S#%S#$@, #189%6$@ and #021%0$@

18)

Code for consonant and vowels are:

Consonant	B	C	D	F	G	H	J	K	L	M	N	P	Q	R	S	T	V	W	X	Y	Z
Code	3	6	9	12	15	18	21	24	27	3	6	9	12	15	18	21	24	27	3	6	9

Vowel	A	E	I	O	U
Code	@	#	$	%	&

Code of "MIDDLE" will be 3$9927#

Now condition number III will be applied to word MIDDLE and after that the code of the word MIDDLE will be 9$99279

19)

Code for consonant and vowels are:

Consonant	B	C	D	F	G	H	J	K	L	M	N	P	Q	R	S	T	V	W	X	Y	Z
Code	3	6	9	12	15	18	21	24	27	3	6	9	12	15	18	21	24	27	3	6	9

Vowel	A	E	I	O	U
Code	@	#	$	%	&

Code of "ERITREA" will be #15$2115#@

Now condition number IV and II will be applied to word ERITREA and after that the code of the word ERITREA will be #9$99#@ and #15$2115#@

20)

Code for consonant and vowels are:

Consonant	B	C	D	F	G	H	J	K	L	M	N	P	Q	R	S	T	V	W	X	Y	Z
Code	3	6	9	12	15	18	21	24	27	3	6	9	12	15	18	21	24	27	3	6	9

Vowel	A	E	I	O	U
Code	@	#	$	%	&

Code of "PATHOLOGY" will be 9@2118%27%156

Now condition number V will be applied to word PATHOLOGY and after that the code of the word PATHOLOGY will be S#@S#S#%S#%S#S#

Answers (21-25):

21) C
22) D
23) C
24) E
25) D

Solutions (21-25):

21)

Code for consonant and vowels are:

Consonants	B	C	D	F	G	H	J	K	L	M	N	P	Q	R	S	T	V	W	X	Y	Z
Code	11	13	15	17	19	21	23	25	27	11	13	15	17	19	21	23	25	27	11	13	15

Vowel	A	E	I	O	U
Code	#	$	@	%	&

Code of "ODESSA" will be %15$2121#

Now condition number I and V will be applied to word ODESSA and after that the code of the word ODESSA will be 2115$2121# and 115$21211

22)

Code for consonant and vowels are:

Consonants	B	C	D	F	G	H	J	K	L	M	N	P	Q	R	S	T	V	W	X	Y	Z
Code	11	13	15	17	19	21	23	25	27	11	13	15	17	19	21	23	25	27	11	13	15

Vowel	A	E	I	O	U
Code	#	$	@	%	&

Code of "ASIA" will be #21@#

Now condition number II and V will be applied to word ASIA and after that the code of the word ASIA will be #P@# and 121@1

23)

Code for consonant and vowels are:

Consonants	B	C	D	F	G	H	J	K	L	M	N	P	Q	R	S	T	V	W	X	Y	Z
Code	11	13	15	17	19	21	23	25	27	11	13	15	17	19	21	23	25	27	11	13	15

Vowel	A	E	I	O	U
Code	#	$	@	%	&

Code of "MAPUTO" will be 11#15&23%

Now condition number III will be applied to word MAPUTO and after that the code of the word MAPUTO will be 11##&23#

24)
Code for consonant and vowels are:

Consonants	B	C	D	F	G	H	J	K	L	M	N	P	Q	R	S	T	V	W	X	Y	Z
Code	11	13	15	17	19	21	23	25	27	11	13	15	17	19	21	23	25	27	11	13	15

Vowel	A	E	I	O	U
Code	#	$	@	%	&

Code of "AUTO" will be #&23%

Now condition number III, IV and V will be applied to word AUTO and after that the code of the word AUTO will be #&&&, 1&231 and #&23%

25)
Code for consonant and vowels are:

Consonants	B	C	D	F	G	H	J	K	L	M	N	P	Q	R	S	T	V	W	X	Y	Z
Code	11	13	15	17	19	21	23	25	27	11	13	15	17	19	21	23	25	27	11	13	15

Vowel	A	E	I	O	U
Code	#	$	@	%	&

Code of "ANTARCTICA" will be #1323#191323@13#

Now condition number I, III and V will be applied to word ANTARCTICA and after that the code of the word ANTARCTICA will be 191323#191323@13#, #1313#191323@1313 and 11323#191323@131

Answers (26-30):

26) D
27) E
28) E
29) A

30) D

Solutions (26-30):

26)

Consonants	B	C	D	F	G	H	J	K	L	M	N	P	Q	R	S	T	V	W	X	Y	Z
Code	10	12	14	16	18	20	22	24	26	10	12	14	16	18	20	22	24	26	10	12	14

Vowel	A	E	I	O	U
Code	&	@	%	#	$

Code of "CONVERSATION" will be 12#1224@1820&22%#12

Now condition number I and V will be applied to word CONVERSATION and after that the code of the word CONVERSATION will be @#1224@1820&22%#12 and 2#1224@1820&22%#2

27)

Consonants	B	C	D	F	G	H	J	K	L	M	N	P	Q	R	S	T	V	W	X	Y	Z
Code	10	12	14	16	18	20	22	24	26	10	12	14	16	18	20	22	24	26	10	12	14

Vowel	A	E	I	O	U
Code	&	@	%	#	$

Code of "PRICING" will be 1418%12%1218

Now condition number II, III, IV and V will be applied to word PRICING and after that the code of the word PRICING will be AA%A%AA, 14181412%1214, 1418%12%1218 and 218%12%122

28)

Consonants	B	C	D	F	G	H	J	K	L	M	N	P	Q	R	S	T	V	W	X	Y	Z
Code	10	12	14	16	18	20	22	24	26	10	12	14	16	18	20	22	24	26	10	12	14

Vowel	A	E	I	O	U
Code	&	@	%	#	$

Code of "SHARJAH" will be 2020&1822&20

Now condition number III, IV and V will be applied to word SHARJAH and after that the code of the word SHARJAH will be 2020&1822&20, 2020201822&20 and 220&1822&2

29)

Consonants	B	C	D	F	G	H	J	K	L	M	N	P	Q	R	S	T	V	W	X	Y	Z
Code	10	12	14	16	18	20	22	24	26	10	12	14	16	18	20	22	24	26	10	12	14

Vowel	A	E	I	O	U
Code	&	@	%	#	$

Code of "FREIGHT" will be 1618@%182022

Now condition number II, III, IV and V will be applied to word FREIGHT and after that the code of the word FREIGHT will be 1618@%181822, AA@%AAA, 161816%182016 and 218@%18202

30)

Consonants	B	C	D	F	G	H	J	K	L	M	N	P	Q	R	S	T	V	W	X	Y	Z
Code	10	12	14	16	18	20	22	24	26	10	12	14	16	18	20	22	24	26	10	12	14

Vowel	A	E	I	O	U
Code	&	@	%	#	$

Code of "TABLET" will be 22&1026@22

Now condition number I and V will be applied to word TABLET and after that the code of the word TABLET will be @&1026@22 and 2&1026@2

Answers (31-35):

31) A
32) E
33) B
34) E
35) D

Solutions (31-35):

31)

Consonants	B	C	D	F	G	H	J	K	L	M	N	P	Q	R	S	T	V	W	X	Y	Z
Code	11	13	15	17	19	21	23	25	27	11	13	15	17	19	21	23	25	27	11	13	15

Vowel	A	E	I	O	U
Code	#	$	@	%	&

Code of "OCTOBER" will be %1323%11$19

Now condition number I will be applied to word OCTOBER and after that the code of the word OCTOBER will be %1323%11$%

32)

Consonants	B	C	D	F	G	H	J	K	L	M	N	P	Q	R	S	T	V	W	X	Y	Z
Code	11	13	15	17	19	21	23	25	27	11	13	15	17	19	21	23	25	27	11	13	15

Vowel	A	E	I	O	U
Code	#	$	@	%	&

Code of "CLAVAM" will be 1327#25#11

Now condition number II will be applied to word CLAVAM and after that the code of the word CLAVAM will be 1327#25#11

33)

Consonants	B	C	D	F	G	H	J	K	L	M	N	P	Q	R	S	T	V	W	X	Y	Z
Code	11	13	15	17	19	21	23	25	27	11	13	15	17	19	21	23	25	27	11	13	15

Vowel	A	E	I	O	U
Code	#	$	@	%	&

Code of "QUOTE" will be 17&%23$

Now condition number III will be applied to word QUOTE and after that the code of the word QUOTE will be &&%23&

34)

Consonants	B	C	D	F	G	H	J	K	L	M	N	P	Q	R	S	T	V	W	X	Y	Z
Code	11	13	15	17	19	21	23	25	27	11	13	15	17	19	21	23	25	27	11	13	15

Vowel	A	E	I	O	U
Code	#	$	@	%	&

Code of "AUSTRALIA" will be #&212319#27@#

Now condition number II and V will be applied to word AUSTRALIA and after that the code of the word AUSTRALIA will be XX212319X27XX and #&333#3@#

35)

Consonants	B	C	D	F	G	H	J	K	L	M	N	P	Q	R	S	T	V	W	X	Y	Z
Code	11	13	15	17	19	21	23	25	27	11	13	15	17	19	21	23	25	27	11	13	15

Vowel	A	E	I	O	U
Code	#	$	@	%	&

Code of "BOOKING" will be 11%%25@1319

Now condition number II and V will be applied to word BOOKING and after that the code of the word BOOKING will be 11%%25@1319 and 11XX25X1319

Answers (36-40):

36) C
37) E
38) E
39) A
40) D

Solutions (36-40):

36)

Consonants	B	C	D	F	G	H	J	K	L	M	N	P	Q	R	S	T	V	W	X	Y	Z
Code	11	22	33	13	26	39	52	17	34	51	68	19	38	57	76	95	21	42	63	84	1

Vowel	A	E	I	O	U
Code	&	@	%	#	$

Code of "CAREER" will be 22&57@@57

Now condition number I and V will be applied to word CAREER and after that the code of the word CAREER will be @&57@@57 and 2&57@@2

37)

Consonants	B	C	D	F	G	H	J	K	L	M	N	P	Q	R	S	T	V	W	X	Y	Z
Code	11	22	33	13	26	39	52	17	34	51	68	19	38	57	76	95	21	42	63	84	1

Vowel	A	E	I	O	U
Code	&	@	%	#	$

Code of "PRESS" will be 1957@7676

Now condition number II, III, IV and V will be applied to word PRESS and after that the code of the word PRESS will be 1957@AA, 1957197619, 1957@7676 and 257@762

38)

Consonants	B	C	D	F	G	H	J	K	L	M	N	P	Q	R	S	T	V	W	X	Y	Z
Code	11	22	33	13	26	39	52	17	34	51	68	19	38	57	76	95	21	42	63	84	1

Vowel	A	E	I	O	U
Code	&	@	%	#	$

Code of "PRODUCT" will be 1957#33$2295

Now condition number I, II, III, IV and V will be applied to word PRODUCT and after that the code of the word PRODUCT will be $57#33$2295, 1957#33$A95, 19571933$2219 and 1957#33$2295

39)

Consonants	B	C	D	F	G	H	J	K	L	M	N	P	Q	R	S	T	V	W	X	Y	Z
Code	11	22	33	13	26	39	52	17	34	51	68	19	38	57	76	95	21	42	63	84	1

Vowel	A	E	I	O	U
Code	&	@	%	#	$

Code of "CHARGE" will be 2239&5726@

Now condition number IV will be applied to word CHARGE and after that the code of the word CHARGE will be 2239&5726@

40)

Consonants	B	C	D	F	G	H	J	K	L	M	N	P	Q	R	S	T	V	W	X	Y	Z
Code	11	22	33	13	26	39	52	17	34	51	68	19	38	57	76	95	21	42	63	84	1

Vowel	A	E	I	O	U
Code	&	@	%	#	$

Code of "COMMODITY" will be 22#5151#33%9584

Now condition number I, II and V will be applied to word COMMODITY and after that the code of the word COMMODITY will be ##5151#33%9584, A#5151#33%95A and 2#5151#33%952

Answers (41-45):

41) A
42) C
43) D
44) C
45) C

Solutions (41-45):

41)

Consonants	B	C	D	F	G	H	J	K	L	M	N	P	Q	R	S	T	V	W	X	Y	Z
Code	10	12	14	16	18	20	22	24	26	10	12	14	16	18	20	22	24	26	10	12	14

Vowel	A	E	I	O	U
Code	&	@	%	#	$

Code of "ASHDOD" will be &202014#14

Now condition number I will be applied to word ASHDOD and after that the code of the word ASHDOD will be 20202014#20

42)

Consonants	B	C	D	F	G	H	J	K	L	M	N	P	Q	R	S	T	V	W	X	Y	Z
Code	10	12	14	16	18	20	22	24	26	10	12	14	16	18	20	22	24	26	10	12	14

Vowel	A	E	I	O	U
Code	&	@	%	#	$

Code of "QUALITY" will be 16$&26%2212

Now condition number II and V will be applied to word QUALITY and after that the code of the word QUALITY will be 9$&9%99 and 16BB26B2212

43)

Consonants	B	C	D	F	G	H	J	K	L	M	N	P	Q	R	S	T	V	W	X	Y	Z
Code	10	12	14	16	18	20	22	24	26	10	12	14	16	18	20	22	24	26	10	12	14

Vowel	A	E	I	O	U
Code	&	@	%	#	$

Code of "CLASSMATE" will be 1226&202010&22@

Now condition number III and V will be applied to word CLASSMATE and after that the code of the word CLASSMATE will be &26&202010&22& and 1226B202010B22B

44)

Consonants	B	C	D	F	G	H	J	K	L	M	N	P	Q	R	S	T	V	W	X	Y	Z
Code	10	12	14	16	18	20	22	24	26	10	12	14	16	18	20	22	24	26	10	12	14

Vowel	A	E	I	O	U
Code	&	@	%	#	$

Code of "OFFICE" will be #1616%12@

Now condition number IV will be applied to word OFFICE and after that the code of the word OFFICE will be #22%2@

45)

Consonants	B	C	D	F	G	H	J	K	L	M	N	P	Q	R	S	T	V	W	X	Y	Z
Code	10	12	14	16	18	20	22	24	26	10	12	14	16	18	20	22	24	26	10	12	14

Vowel	A	E	I	O	U
Code	&	@	%	#	$

Code of "LOOKOUT" will be 26##24#$22

Now condition number II and V will be applied to word OFFICE and after that the code of the word OFFICE will be 9##9#$9 and 26BB24BB22

Answers (46-50):

46) A
47) C
48) E
49) C
50) D

Solutions (46-50):

46)

Consonants	B	C	D	F	G	H	J	K	L	M	N	P	Q	R	S	T	V	W	X	Y	Z
Code	11	22	33	13	26	39	52	17	34	51	68	19	38	57	76	95	21	42	63	84	1

Vowel	A	E	I	O	U
Code	&	@	%	#	$

Code of "EXPORT" will be @6319#5795

Now condition number I will be applied to word EXPORT and after that the code of the word EXPORT will be 636319#5763

47)

Consonants	B	C	D	F	G	H	J	K	L	M	N	P	Q	R	S	T	V	W	X	Y	Z
Code	11	22	33	13	26	39	52	17	34	51	68	19	38	57	76	95	21	42	63	84	1

Vowel	A	E	I	O	U
Code	&	@	%	#	$

Code of "TERMINAL" will be 95@5751%68&34

Now condition number II will be applied to word TERMINAL and after that the code of the word TERMINAL will be 95@5751%9&9

48)

Consonants	B	C	D	F	G	H	J	K	L	M	N	P	Q	R	S	T	V	W	X	Y	Z
Code	11	22	33	13	26	39	52	17	34	51	68	19	38	57	76	95	21	42	63	84	1

Vowel	A	E	I	O	U
Code	&	@	%	#	$

Code of "FREE" will be 1357@@

Now condition number III will be applied to word FREE and after that the code of the word FREE will be @57@@

49)

Consonants	B	C	D	F	G	H	J	K	L	M	N	P	Q	R	S	T	V	W	X	Y	Z
Code	11	22	33	13	26	39	52	17	34	51	68	19	38	57	76	95	21	42	63	84	1

Vowel	A	E	I	O	U
Code	&	@	%	#	$

Code of "AUSTRIA" will be &$769557%&

Now condition number IV and V will be applied to word AUSTRIA and after that the code of the word AUSTRIA will be &$29557%& and BB769557BB

50)

Consonants	B	C	D	F	G	H	J	K	L	M	N	P	Q	R	S	T	V	W	X	Y	Z
Code	11	22	33	13	26	39	52	17	34	51	68	19	38	57	76	95	21	42	63	84	1

Vowel	A	E	I	O	U
Code	&	@	%	#	$

Code of "CALLING" will be 22&3434%6826

Now condition number II and V will be applied to word CALLING and after that the code of the word CALLING will be 9&99%99 and 22B3434B6826

Box Type Coding Decoding

Direction (1-5): In a certain code language the words are written in the form of numbers which are specific to a certain code. These codes can be traced from the table with the respective number. For e.g. the code for the number '10' will be 'ka', code for the number '01' will be 'so' and so on.

	0	**1**	**2**
0	go	so	zo
1	ka	la	pa
2	ma	ta	qa

'wait party shock maid' is coded as '22000211'

'wait solid master soft' is coded as '10220120'

'shock solid try soft' is coded as '02101220'

'soft orange try maid 'is coded as '20211211'

1. What is the code for 'master'?

(a) ka

(b) la

(c) qa

(d) so

(e) None of these

2. Which of the following may be the code for 'soft try'?

(a) pa ma

(b) qa la

(c) sola

(d) qaka

(e) None of these

3. What is the code for 'orange'?

(a) go

(b) ma

(c) ta

(d) zo

(e) None of these

4. What is the code for 'shock' in the given code language?

(a) zo

(b) go

(c) qa

(d) ma

(e) None of these

5. What is the code for 'wait solid in the given code language?

(a) lata

(b) maso

(c) gozo

(d) qaka

(e) None of these

Direction (6-10): In a certain code language the words are written in the form of numbers which are specific to a certain code. These codes can be traced from the table with the respective number. For e.g. the code for the number '10' will be 'yw', code for the number '01' will be 'ba' and so on.

	0	**1**	**2**	**3**
0	pa	ba	ta	ja
1	yw	ra	na	ma
2	la	xu	ka	wn

'fool and best gain pins' is coded as '20 12 01 23 00'

'loud joker flower pins' is coded as '21 03 13 00'

'red and flower money' is coded as '22 12 13 10'

'fool pen solid red joker' is coded as '20 11 02 22 03'

6. What is the code for 'joker'in the given code language?

(a) xu

(b) ra

(c) wn

(d) ja

(e) None of these

7. What is the code for 'money flower'in the given code language?

(a) ma yw

(b) wn ma

(c) ja ra

(d) xu yw

(e) None of these

8. What is the code for 'fool'in the given code language?

(a) ma

(b) wn

(c) la

(d) yw

(e) None of these

9. What is the code for 'pins'in the given code language?

(a) wn

(b) ta

(c) ba

(d) pa

(e) None of these

10. If 'loudgain'is coded as 'xuwn' then what is the code for 'best'?

(a) ba

(b) yw

(c) xu

(d) ta

(e) None of these

Direction (11-15): In a certain code language the words are written in the form of numbers which are specific to a certain code. These codes can be traced from the table with the respective number. For e.g. the code for the number '10' will be 'sw', code for the number '01' will be 'bx' and so on.

	0	**1**	**2**	**3**
0	xz	bx	mz	mq
1	sw	rp	kw	za
2	pq	ax	ta	na

like rock real people retail' is coded as '00 21 11 13 23'

'day detail allow people' is coded as '10 20 23 22'

'fail retail day actual' is coded as '02 21 22 01'

'like virtual suit fail allow' is coded as '00 12 03 02 20'

11. What is the code for 'retail'in the given code language?

(a) ax

(b) sw

(c) kw

(d) za

(e) None of these

12. Which of the following may be the code for 'suit'?

(a) za

(b) xz

(c) bx

(d) mq

(e) Can't be determine

13. What is the code for 'fail'in the given code language?

(a) sw

(b) mq

(c) mz

(d) bx

(e) None of these

14. What is the code for 'like people' in the given code language?

(a) mqsq

(b) naxz

(c) pqax

(d) narp

(e) None of these

15. If 'rock' is coded as 'rp' then what is the code for 'real'?

(a) xz

(b) mq

(c) sw

(d) za

(e) None of these

Direction (16-20): In a certain code language the words are written in the form of numbers which are specific to a certain code. These codes can be traced from the table with the respective number. For e.g. the code for

the number '10' will be 'ba', code for the number '01' will be 'sa' and so on.

	0	**1**	**2**	**3**
0	la	sa	ka	pa
1	ba	ma	na	ra
2	ta	fa	ha	qa

'dance luxary loose win award' is coded as '23 10 01 02 21'

'plus hope award meeting' is coded as '00 03 21 11'

'flat luxary meeting round' is coded as '13 10 11 12'

'dance show floorflathope' is coded as '23 20 22 13 03'

16. What is the code for 'hope'in the given code language?

(a) ka

(b) qa

(c) fa

(d) la

(e) None of these

17. What is the code for 'award'in the given code language?

(a) la

(b) ba

(c) sa

(d) fa

(e) None of these

18. What is the code for 'floor'in the given code language?

(a) ma

(b) ra

(c) ha

(d) ta

(e) Can't be determine

19. What is the code for 'luxarymeeting' in the given code language?

(a) ha fa

(b) ba ma

(c) raba

(d) tama

(e) None of these

20. If 'loose' is coded as 'sa' then what is the code for 'win'?

(a) la

(b) pa

(c) ba

(d) ka

(e) None of these

Direction (21-25): In a certain code language the words are written in the form of numbers which are specific to a certain code. These codes can be traced from the table with the respective number. For e.g. the code for the number '10' will be 'ea', code for the number '01' will be 'ba' and so on.

	0	1	2	3
0	aa	ba	ca	da
1	ea	fa	ga	ha
2	ia	ja	ka	la

'ground pitch ball free cricket' is coded as 02 13 22 23 00'

'wide out cricket decision'is coded as '21 20 00 10'

'umpire pitch decision play' is coded as '03 13 10 01'

'ground final match umpire out' is coded as '02 11 12 03 20'

21. What is the code for 'ground'in the given code language?

(a) la

(b) fa

(c) ca

(d) ba

(e) None of these

22. What is the code for 'decision'in the given code language?

(a) aa

(b) fa

(c) ha

(d) la

(e) None of these

23. What is the code for 'wide'in the given code language?

(a) ba

(b) ja

(c) ea

(d) ha

(e) Can't be determine

24. What is the code for 'pitch' in the given code language?

(a) ha

(b) ga

(c) ia

(d) la

(e) None of these

25. If 'final' is coded as 'fa' then what is the code for 'match'?

(a) ka

(b) ea

(c) aa

(d) ga

(e) None of these

Direction (26-30): In a certain code language the words are written in the form of numbers which are specific to a certain code. These codes can be traced from the table with the respective number. For e.g. the code for the number '10' will be 'dq', code for the number '01' will be 'bq' and so on.

	0	1	2
0	aq	bq	cq

1	dq	eq	fq
2	gq	hq	iq

‘lack down hunter defer’ is coded as ‘22 00 02 11’

‘hunter sound tension surface’ is coded as ‘02 10 12 20’

‘lack sound mankind surface’ is coded as ‘10 22 01 20’

‘surface often tension defer’is coded as ‘20 21 12 11’

26. What is the code for ‘lack’in the given code language?

(a) cq

(b) aq

(c) dq

(d) bq

(e) iq

27. What is the code for ‘surface’in the given code language?

(a) gq

(b) hq

(c) eq

(d) cq

(e) None of these

28. What is the code for ‘tension defer’in the given code language?

(a) aq dq

(b) gq cq

(c) dq bq

(d) fq eq

(e) None of these

29.What is the code for ‘mankind’in the given code language?

(a) hq

(b) eq

(c) bq

(d) dq

(e) None of these

30. What is the code for ‘hunter’ in the given code language?

(a) gq

(b) cq

(c) hq

(d) bq

(e) None of these

Direction (31-35): In a certain code language the words are written in the form of numbers which are specific to a certain code. These codes can be traced from the table with the respective number. For e.g. the code for the number ‘10’ will be ‘jm’, code for the number ‘01’ will be ‘dm’ and so on.

	0	**1**	**2**	**3**
0	am	dm	fm	hm
1	jm	km	om	qm
2	rm	tm	um	zm

'supplying incentive turn stay Higher' is coded as '20 12 01 23 00'

'industries squeeze sector Higher' is coded as '21 03 13 00'

'unorganized incentive sector firms' is coded as '22 12 13 10'

'supplying out in unorganized squeeze' is coded as '20 11 02 22 03'

31. What is the code for 'squeeze'in the given code language?

(a) dm

(b) rm

(c) zm

(d) hm

(e) None of these

32. What is the code for 'unorganized sector'in the given code language?'?

(a) um qm

(b) hmzm

(c) tmrm

(d) dmhm

(e) None of these

33. What is the code for 'industries'in the given code language?

(a) tm

(b) qm

(c) rm

(d) zm

(e) None of these

34. What is the code for 'higherfirms' in the given code language?

(a) rmqm

(b) zmam

(c) fmkm

(d) amjm

(e) None of these

35. If 'stay' is coded as 'dm' then what is the code for 'turn'?

(a) hm

(b) km

(c) zm

(d) om

(e) None of these

Direction (36-40): In a certain code language the words are written in the form of numbers which are specific to a certain code. These codes can be traced from the table with the respective number. For e.g. the code for the number '10' will be 'hw', code for the number '01' will be 'dw' and so on.

	0	**1**	**2**	**3**
0	aw	dw	fw	gw
1	hw	jw	kw	mw
2	nw	ow	qw	sw

'should so that clerk subject' is coded as '00 21 11 13 23'

'mark preparation selection clerk' is coded as '10 20 23 22'

'soon subject mark exam' is coded as '02 21 22 01'

'should utilize keep soon selection' is coded as '00 12 03 02 20'

36. What is the code for 'subject'in the given code language?

(a) mw

(b) gw

(c) nw

(d) ow

(e) None of these

37. Which of the following may be the code for 'examsoon'?

(a) owsw

(b) jwmw

(c) gwdw

(d) dwfw

(e) None of these

38. What is the code for 'preparation'in the given code language?

(a) hw

(b) ow

(c) jw

(d) fw

(e) None of these

39. What is the code for 'that' in the given code language?

(a) sw

(b) jw

(c) ow

(d) mw

(e) Can't be determine

40. If 'keep' is coded as 'gw' then what is the code for 'utilize'?

(a) jw

(b) kw

(c) fw

(d) dw

(e) None of these

Direction (41-45): In a certain code language the words are written in the form of numbers which are specific to a certain code. These codes can be traced from the table with the respective number. For e.g. the code for the number '10' will be 'ee', code for the number '01' will be 'bb' and so on.

	0	**1**	**2**	**3**
0	aa	bb	cc	dd
1	ee	ff	gg	hh
2	mm	nn	qq	ss

'rural affect economy growth capital' is coded as '23 20 22 13 03'

'Rise capital urban country' is coded as '00 03 21 11'

'rural enterprises do both urban' is coded as '23 10 01 02 21'

'growth enterprises country large' is coded as '13 10 11 12'

41. What is the code for 'rural'in the given code language?

(a) qq

(b) mm

(c) ss

(d) dd

(e) None of these

42. What is the code for 'growth'in the given code language?

(a) qq

(b) ee

(c) mm

(d) hh

(e) None of these

43. What is the code for 'capital'in the given code language?

(a) dd

(b) mm

(c) ee

(d) qq

(e) None of these

44. What is the code for 'enterprises'in the given code language?

(a) bb

(b) dd

(c) ee

(d) ff

(e) None of these

45. If 'affect' is coded as 'mm' then what is the code for 'economy'?

(a) gg

(b) cc

(c) dd

(d) bb

(e) None of these

Direction (46-50): In a certain code language the words are written in the form of numbers which are specific to a certain code. These codes can be traced from the table with the respective number. For e.g. the code for the number '10' will be 'so', code for the number '01' will be 'aq' and so on.

	0	**1**	**2**	**3**
0	zy	aq	lo	mo
1	so	go	ho	to
2	mh	gz	sb	ak

'fund sober monetary latest' is coded as '03 13 10 01'

'across sober purpose bank protracted' is coded as 02 13 22 23 00'

'annual raise protracted monetary' is coded as '21 20 00 10'

'across board latin fund raise' is coded as '02 11 12 03 20'

46. What is the code for 'sober'in the given code language?

(a) mh

(b) ho

(c) go

(d) to

(e) None of these

47. What is the code for 'annual raise'in the given code language?

(a) mhgz

(b) zy lo

(c) aqmh

(d) ho to

(e) None of these

48. What is the code for 'monetary'in the given code language?

(a) zy

(b) ho

(c) so

(d) to

(e) None of these

49. What is the code for 'protracted' in the given code language?

(a) aq

(b) zy

(c) lo

(d) go

(e) None of these

50. If 'purpose' is coded as 'sb' then what is the code for 'bank'?

(a) mh

(b) aq

(c) ak

(d) so

(e) None of these

Box Type Coding Decoding– Answer and Explanation

Explanation in detail:

Word	Code	Number
wait	qa	22
Party	go	00

shock	zo	02
maid	la	11
Solid	ka	10
Master	so	01
Soft	ma	20
Try	pa	12
orange	ta	21

1.d

2.a

3.c

4.a

5.d

SOLUTION(6-10):

Explanation in detail:

Word	Code	Number
pins	pa	00
Gain/best	wn/ba	23/01
Solid/pen	ta/ra	02/11
joker	ja	03
money	yw	10
Solid/pen	ta/ra	02/11
and	na	12
flower	ma	13
fool	la	20
loud	xu	21
red	ka	22
Gain/best	wn/ba	23/01

6.d

7.a

8.c

9.d

10.a

SOLUTION(11-15):

Explanation in detail:

Word	Code	Number
like	xz	00
actual	bx	01
fail	mz	02
Virtual/suit	mq/kw	03/12
detail	sw	10
Rock/real	rp/za	11/13
Virtual/suit	mq/kw	12/03
Rock/real	rp/za	13/11
allow	pq	20
retail	ax	21
day	ta	22
people	na	23

11.a

12.e

13.c

14.b

15.d

SOLUTION(16-20):

Explanation in detail:

Word	Code	Number
Plus	la	00
Loose/win	sa/ka	01/02
Loose/win	ka/sa	02/01
Hope	pa	03
luxary	ba	10
meeting	ma	11
round	na	12
flat	ra	13
Show/floor	ta/ha	20/22
award	fa	21

Show/floor	ha/ta	22/20
dance	qa	23

16.e

17.d

18.e

19.b

20.d

SOLUTION(21-25):

Explanation in detail:

Word	Code	Number
cricket	aa	00
play	ba	01
ground	ca	02
umpire	da	03
decision	ea	10
final/match	fa/ga	11/12
final/match	fa/ga	12/11
pitch	ha	13
out	ia	20
wide	ja	21
ball/free	ka/la	22/23
ball/free	ka/la	23/22

21.c

22.e

23.b

24.a

25.d

SOLUTION(26-30):

Explanation in detail:

Word	Code	Number
lack	iq	22
Down	aq	00
hunter	cq	02
defer	eq	11
Sound	dq	10
Mankind	bq	01
Surface	gq	20
Tension	fq	12
often	hq	21

26.e

27.a

28.d

29.c

30.b

SOLUTION(31-35):

Explanation in detail:

Word	Code	Number
Higher	am	00
Stay/turn	dm/zm	23/01
In/out	fm/km	02/11
squeeze	hm	03
firms	jm	10
In/out	km/fm	02/11
incentive	om	12
sector	qm	13
supplying	rm	20
industries	tm	21
unorganized	um	22
Stay/turn	zm/dm	23/01

31.d

32.a

33.a

34.d

35.c

SOLUTION(36-40):

Explanation in detail:

Word	Code	Number
should	aw	00
exam	dw	01
soon	fw	02
Utilize/keep	gw/kw	03/12
preparation	hw	10
So/that	jw/mw	11/13
Utilize/keep	gw/kw	12/03
So/that	jw/mw	13/11
selection	nw	20
subject	ow	21
mark	qw	22
clerk	sw	23

36.d

37.d

38.a

39.e

40.b

SOLUTION(41-45):

Explanation in detail:

Word	Code	Number
Rise	aa	00
Do /both	bb/cc	01/02
Do /both	cc/bb	02/01
Capital	dd	03
enterprises	ee	10
country	ff	11
large	gg	12
growth	hh	13
Affect/economy	mm/qq	20/22
urban	nn	21
Affect/economy	qq/mm	22/20
rural	ss	23

41.c

42.d

43.a

44.c

45.e

SOLUTION(46-50):

Explanation in detail:

Word	Code	Number
protracted	zy	00
latest	aq	01
across	lo	02
fund	mo	03
monetary	so	10
board/latin	ho/go	11/12
board/latin	go/ho	12/11
sober	to	13
raise	mh	20
annual	gz	21
purpose/bank	sb/ak	22/23
purpose/bank	sb/ak	23/22

46.d

47.a

48.c

49.b

50.c

Download Seating Arrangement Practice Questions PDF

Get More Reasoning Practice Questions PDF

Input- Output Part 1

Directions 1-5: **Study the given information carefully and answer the Direction: Study the following information carefully and answer the questions given below.**

A number arrangement machine, when given an input, rearranges it following a particular rule. The following is the illustration of the input and steps of the arrangement.

Condition:

i) If an odd number comes at the even-numbered position, then the first digit of the number is changed to &.

ii) If an Even number comes at the odd-numbered position, then the Second digits of the number changed to *.

Input: 34 25 56 98 11 77 68 83

Step 1: 11 34 25 56 77 68 83 98

Step 2: 25 &1 3* 56 77 68 9* &3

Step 3: 3* &5 &1 56 6* 9* &3 &7

Step 4: 5* 3* &5 &1 9* &3 &7 6*

Step 4 is the last step of the rearrangement. As per the rules followed in the above steps, find out the answers to each of the following questions.

Input: 13 99 42 19 66 87 32 70

1) Which of the following element is between 3* and &3 in the last step?

a. None

b. 6*

c. 7*

d. &3

e. &9

2) Which of the following steps are not used in the rearrangement?

a. 4* 3* &9 &3 &9 &7 7* 6*

b. 19 &3 4* 66 3* 7* &9 &7

c. 13 42 19 66 87 32 7* &9

d. 19 4* &3 3* 66 7* &9 &7

e. None of these

3) Which of the following element is immediately preceded by 4* in step 2?

a. 19

b. 66

c. &3

d. 6*

e. None

4) In step 3, which element is second to the right of the number which is third from the left end?

a. 6*

b. &5

c. 77

d. 9*

e. 56

5) Which among the following is the last step of the rearrangement?

a. 4* 3* &6 &3 &7 &9 7* 6*

b. 4* 3* &9 &3 &9 &6 7* 7*

c. 4* 3* &3 &9 &3 &7 7* 6*

d. 4* 3* &9 &3 &9 &7 7* 6*

e. None of these

Directions: Study the following information carefully and answer the given questions:

A word and number arrangement device when given an input line of words and numbers rearranges them following a particular pattern in each step. The following is an illustration of input and rearrangement.

Input: glitter situation younger contain visiting hostel ginger

Step I: younger contain visiting ginger situation glitter hostel

Step II: 41 25 27 14 55 14 20

Step III: 66 52 41 69 69 34

Step IV: 19 12 20 30 22

Step V: 7 -8 -10 8

Step VI: -56 80 -80

Step VII: 24 0

Step VIII: 24

Input: biscuit decide hideout silent essential author gesture

6) Which element is third to the left in step IV?

a. 21

b. 32

c. 24

d. 120

e. None of these

7) What is the sum of the all the digits of the number in final step?

a) 04

b) 06

c) 13

d) 12

e) None of these

8) Which element is fifth from the right in step 1?

a) Author

b) 89

c) Silent

d) Hideout

e) None of these

9) Which step number is the following output?

'21 32 24 12 17'

a) Step I

b) Step II

c) Step IV

d) Step III

e) Step V

10) What is sum of all the numbers of penultimate step?

a) 49

b) 46

c) 43

d) 44

e) None of these

Directions: Study the following information carefully and answer the given questions:

A word and number arrangement device when given an input line of words and numbers rearranges them following a particular pattern in each step. The following is an illustration of input and rearrangement.

Input: Three person bought prime laptops

Step I: 25 75 315 45 15

Step II: 34 64 204 54 04

Step III: 04 34 54 64 204

Step IV: 30 20 10 140

Step V: 3 2 1 5

Step VI: X Y Z V

Step VI is the last step of the given input

Input: seven persons attend eight meeting

11) What is the position of '54' in the step-3?

a) fourth from the left

b) second from the left

c) **fourth from the right**

d) third from the left

e) second from the right

12) What is the sum of all the numbers in step 5?

a) 16

b) 15

c) 10

d) 11

e) 12

13) How many elements are there between '334' and '270' in step 3?

a) Two

b) One

c) Three

d) None

e) There is no such step

14) Which step number is the following output?

30 20 10 270

a) Step I

b) Step II

c) Step IV

d) Step III

e) Step V

15) How many vowels are presents in the last step of the given input?

a) 2

b) None

c) 1

d) 3

e) 4

Directions: Study the following information carefully and answer the given questions:

A word and number arrangement device when given an input line of words and numbers rearranges them following a particular pattern in each step. The following is an illustration of input and rearrangement.

Input: articulate reticent incorrigible adroit martinet

Step I: adroit articulate incorrigible martinet reticent

Step II: 6 10 12 8 8

Step III: 60 120 96 64

Step IV: -60 24 32

Step V: -36 56

Step VI: 20

Step VII: T

Input: drag gorgeous energetic wonder harper

16) Which of the following represents position of "24" in Step IV of the new input?

a) Second from the left

b) Third from the right

c) Third from the left

d) First from the left

e) First from the right

17) Which number would be at third position from left in Step IV?

a) 24

b) -36

c) -24

d) 12

e) 36

18) Which alphabet appears in the last step of the output?

a) L

b) M

c) X

d) Q

e) J

19) Which step number is the following output?

"36 72 48 36"

a) Step I

b) Step II

c) Step IV

d) Step III

e) Step V

20) What is difference between fifth number from left and fifth number from right in Step II?

a) 5

b) 6

c) 3

d) 4

e) 2

Directions 21-25: **Directions: A word and number arrangement machine when given an input line of words and numbers rearranges then following a particular rule in each step. The following is an illustration of an input rearrangement.**

Input: Current True 28 30 Given 24 Situation 48 Triangles 52

Step I: Triangles Current True 28 30 Given Situation 48 52 24

Step II: Triangles Situation Current True 30 Given 48 52 24 28

Step III: Triangles Situation True Current Given 48 52 24 28 30

Step IV: Triangles Situation True Current Given 52 24 28 30 48

Step V: Triangles Situation True Current Given 24 28 30 48 52

Step VI: 18 09 18 21 09 24 28 30 48 52

Step VII: 09 09 09 03 09 06 10 03 12 07

Step VIII: 03 03 06 07 09 09 09 09 10 12

Step VIII is the output of the above input

Input: Nest Dinner 26 Figure 78 34 38 Medicine Summer 56

21) In the Step V, which element will be sixth to the right of seventh element from the right end for the input given below?

a. 78

b. Nest

c. 56

d. 38

e. None of these

22) What would be the sum of all the numbers in the penultimate step?

a. 95

b. 83

c. 75

d. 88

e. None of these

23) Which number is second to the right of third element from left end in step IV?

a. 78

b. Nest

c. Figure

d. Medicine

e. None of these

24) What is the sum of first four numbers from left end in last step?

a. 12

b. 18

c. 14

d. 10

e. 20

25) Which element is third to the left of third element from the right end in step III?

a. 26

b. 78

c. Medicine

d. Dinner

e. None of these

26-30 Directions: Study the following information carefully and Directions: Read the given information carefully and answer the questions.

A three digit number arrangement machine when given an input line of numbers rearranges them following a particular rule in each step. The following is an illustration of input and rearrangement.

Input: 347 736 479 238 547 632

Step I: 256 627 568 329 456 723

Step II: 723 627 568 456 329 256

Step III: 237 267 568 456 239 256

Step IV: 23 44 53 34 29 32

Step V: 23 29 32 34 44 53

Step V is the last step of the above input. As per rules followed in the above steps, find out in each of the given questions the appropriate steps for the given input.

Input for the question:

"825 392 647 528 724 438"

26) What is the absolute difference between first two numbers (from the left end) in Step IV of the given input?

a. 4

b. 14

c. 11

d. 8

e. None of these

27) What is the sum of all the prime numbers in the last step of the given input?

a. 70

b. 94

c. 87

d. 99

e. None of these

28) What is the sum of all the digits of the 3rd number from the left end in step II of the given input?

a. 15

b. 14

c. 16

d. 18

e. None of these

29) What is the addition of first two numbers (from the left end) in Step V of the given input?

a. 48

b. 54

c. 51

d. 59

e. None of these

30) What is the sum of all the odd numbers in the last step of the given input?

a. 170

b. 205

c. 187

d. 199

e. None of these

31-35) Direction: Study the following information carefully and answer the questions given below.

A word and number arrangement machine, when given a particular input, rearranges it following a particular rule.

The following is the illustration of the input and the steps of arrangement.

Input: glitter situation younger contain visiting hostel ginger

Step I: ginger glitter situation younger contain visiting hostel

Step II: ginger hostel glitter situation younger contain visiting

Step III: ginger hostel contain glitter situation younger visiting

Step IV: ginger hostel contain glitter younger situation visiting

Step V: ginger hostel contain glitter younger visiting situation

Step VI: 07 08 20 20 14 22 01

Step VII: 08 10 22 22 16 24 02

Step VIII: 02 08 10 16 22 22 24

And Step VIII is the last step of the rearrangement as the desired arrangement is obtained. As per the rules followed in the above steps, answer the following questions for the given input.

Input: biscuit decide hideout silent essential author gesture

31) What is the sum of all numbers in the penultimate step of given input?

a. 82

b. 85

c. 76

d. 75

e. 80

32) Which word is the fifth from the left in step III of given input?

a. Author

b. Gesture

c. Essential

d. Decide

e. Hideout

33) Which number is the third to the right of sixth number from right end in step VI of given input?

a. 03

b. 20

c. 21

d. 19

e. None of the above

34) Which of the following is the middle word in step III of given input?

a. Silent

b. Biscuit

c. Hideout

d. Gesture

e. Author

35) Which word is the third to the left of third word from right end in step IV of given input?

a. Biscuit

b. Gesture

c. Author

d. Hideout

e. Decide

36-40) Direction: Study the following information carefully and answer the questions given below.

Eight batsmen with different runs in a match are arranged in two teams P and Q. Runs of each batsman are coded as per the following examples:

Runs	Step 1	Step 2	Player codes
342	57	171	19
123	41	164	82
279	93	372	186
324	54	162	18
126	21	63	7
189	63	252	126
216	36	108	12
339	113	452	226

After player codes are generated, players are arranged in ascending order as per player code and the first four players are kept in team P and last four players are kept in team Q:

Work out the same for the following runs of the players:

315, 234, 195, 423, 414, 87, 162, 378

36) What is the player code of the player, who has 87 runs?

a. 65

b. 130

c. 58

d. 105

e. None of these

37) What is the difference of the highest and the lowest player codes in team P?

a. 14

b. 23

c. 19

d. 17

e. None of these

38) If a player scores 75 runs, what will be his code?

a. 150

b. 70

c. 25

d. 50

e. None of these

39) What is the sum of the 2nd highest and the lowest player codes in Team Q?

a. 188

b. 340

c. 268

d. 329

e. None of these

40) The player with 3rd highest code (including both the teams) has how many runs?

a. 414

b. 378

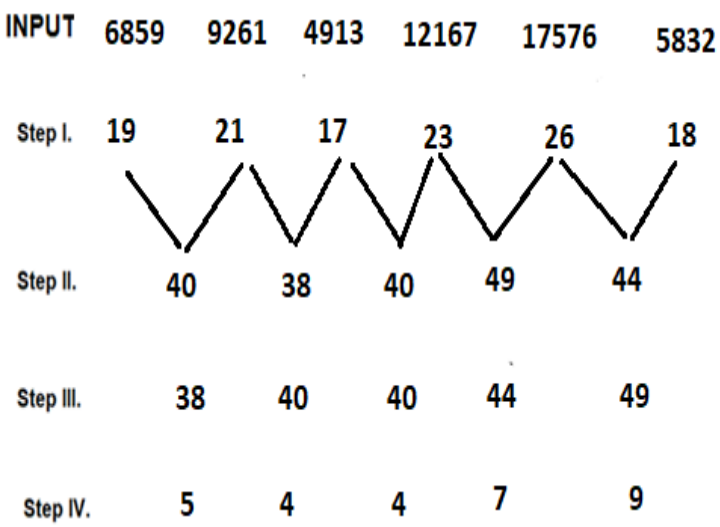
c. 195

d. 87

e. None of these

41-45) Directions: Study the given information to answer the questions based on it.

A number arrangement machine when given an input line of numbers rearranges them following a particular rule. The following is an illustration of input and re-arrangement.



As per the rules followed in the above steps, find out in each of the following questions the appropriate steps for the given input.

Input – 24389 21952 19863 15625 13824 10648

41) Which of the following is the 3rd number from left in the penultimate step?

a. 56

b. 58

c. 50

d. 52

e. None of these

42) What will be final step of the given input?

a. 2 5 3 0 2

b. 2 3 5 0 2

c. 2 5 3 2 0

d. 2 5 3 0 2

e. None of these

43) What is the multiplication of the number which is third from left and which fifth from right in the last step?

a. One

b Two

c. Four

d. Three

e. More than Three

44) Which of the following element is 3rd to the right of the element which is 2nd from the left end in the step II?

a. 57

b. 46

c. 55

d. 52

e. 49

45) What is the sum of the elements which are 2nd from the right end of step II and 3rd from the right in step III?

a. 103

b. 104

c. 101

d. 109

e. None of these

Input Output Part 1- Answers and Explantion

1. E

2. D

3. C

4. A

5. D

Solution 1-5

Given condition:

i) If an odd number comes at the even-numbered position, then the first digit of the number is changed to &.

ii) If an Even number comes at the odd-numbered position, then the Second digits of the number changed to *.

Operation applied:

Numbers are arranged in increasing order from left end and in decreasing order from right end simultaneously.

Input: 34 25 56 98 11 77 68 83

Step 1: 11 34 25 56 77 68 83 98

Step 2: 25 &1 3* 56 77 68 9* &3

Step 3: 3* &5 &1 56 6* 9* &3 &7

Step 4: 5* 3* &5 &1 9* &3 &7 6*

Now for the input,

Input: 13 99 42 19 66 87 32 70

Step 1: 13 42 19 66 87 32 7* &9

Step 2: 19 &3 4* 66 3* 7* &9 &7

Step 3: 3* &9 &3 4* 6* &9 &7 7*

Step 4: 4* 3* &9 &3 &9 &7 7* 6*

6. c

7. b

8. d

9. c

10. d

Solution 6-10:

In the given illustration:

Step I: arrange the words from the left side which comes last in the dictionary and then the word which comes first in the English dictionary. Now, the second last word and second word will be arranged and so on.

Step 2: each word is replaced by sum of the numerical position of vowels in the English alphabetical order.

Step 3: sum of the two adjacent numbers given in step 2.

Step 4: sum of all the digits of the two adjacent numbers given in step 3.

Step 5: Subtraction of 2nd number from the left from 1st and 3rd number from 2nd and so on.

Step 6: Product of the two adjacent numbers given in step 5.

Step 7: sum of the two adjacent numbers given in step 6.

Step 8: 2nd number from the left is to be subtracted from the first from the left

Step-8 is the final step

Now given

Input: biscuit decide hideout silent essential author gesture

Step I: silent author hideout biscuit gesture decide essential

Step II: 14 37 50 39 31 19 20

Step III: 51 87 89 70 50 39

Step IV: 21 32 24 12 17

Step V: -11 8 -12 05

Step VI: -88 96 -60

Step VII: 08 36

Step VIII: -24

11. d

12. b

13. e

14. c

15. b

Solution 11-15:

In the given illustration:

Step I: Each word is replaced by the multiplication of numerical positions of vowels in the English alphabetical series.

Step 2: Each odd digit of the number should be replaced by -1 and each even digit of the number should be replaced by +1.

Step 3: Arrange all the numbers in the ascending order.

Step 4: Difference of the two adjacent numbers given in step 3(Subtraction of lower number from higher number).

Step 5: Sum of the digits of the numbers given in step 4.

Step 6: The alphabet which have the positional value same as the number given in step 5.

Step 6 is the last step

Input: Seven persons attend eight meeting

Step I: 25 75 15 45 225

Step II: 34 64 04 54 334

Step III: 04 34 54 64 334

Step IV: 30 20 10 270

Step V: 3 2 1 9

Step VI: **X** **Y** **Z** **R**

Step VI is the last step of the given input

16. a

17. d

18. c

19. d

20. e

Solution 16-20:

In the given illustration:

Step I: arrange the words in an alphabetical order.

Step 2: each word is replaced by number of letters in that word.

Step 3: Product of two adjacent numbers given in step 2.

Step 4: difference between the two adjacent numbers given in step 3.

Step 5: sum of the two adjacent numbers given in step 4.

Step 6: sum of the two adjacent numbers given in step 5.

Step 7: the alphabet which have the positional value same as the number given in step 6.

Step 7 is the last step

Now given

Input: drag gorgeous energetic wonder harper

Step I: drag energetic gorgeous harper wonder

Step II: 4 9 8 6 6

Step III: 36 72 48 36

Step IV: -36 24 12

Step V: -12 36

Step VI: **24**

Step VII: **X**

21. A

22. B

23. C

24. E

25. B

Solution 21-25

In the illustration from Step I-V, the words are being arranged according to highest number, which is obtained by the sum of numbers representing the first and last alphabet of the word, from left to right and simultaneously the numbers are being arranged one by one in ascending order. In Step VI, after rearrangement of words and numbers, we write the number as the number representing second letter of the word. In step VII, we add the digits of the numbers. In step VIII, we arranged the numbers in increasing order from left to right.

Input: Nest Dinner 26 Figure 78 34 38 Medicine Summer 56

Step I: Summer Nest Dinner Figure 78 34 38 Medicine 56 26

Step II: Summer Nest Dinner Figure 78 38 Medicine 56 26 34

Step III: Summer Nest Dinner Figure 78 Medicine 56 26 34 38

Step IV: Summer Nest Dinner Medicine Figure 78 26 34 38 56

Step V: Summer Nest Dinner Medicine Figure 26 34 38 56 78

Step VI: 21 05 09 05 09 26 34 38 56 78

Step VII: 03 05 09 05 09 08 07 11 11 15

Step VIII: 03 05 05 07 08 09 09 11 11 15

26. D

27. B

28. B

29.D

30. B

Solutions 26-30

The rearrangement takes place in the following ways:

In Step I, all the odd digits of each numbers are subtracted by 1 and all the even digits of each numbers are added by 1.

In Step II, all the numbers in step I are arranged in decreasing order from left to right.

In Step III, all the digits of all the numbers are arranged in increased order (within each number)

In Step IV, the hundredth digit is added to the product of unit digit and tenth digit of each numbers.

In Step V, numbers in step IV are arranged in increasing order from left to right.

Input: 825 392 647 528 724 438

Step I: 934 283 756 439 635 529

Step II: 934 756 635 529 439 283

Step III: 349 567 356 259 349 238

Step IV: 39 47 33 47 39 26

Step V: 26 33 39 39 47 47

31. C

32. E

33. B

34. B

35. E

Solution 31-35

The logic followed here is:

Step I - Step V: Words are arranged in increasing order of number of letters. If two or more words have same number of letters then those words are arranged in alphabetical order of first letters.

Step VI: If a word has even number of letters then it will be replaced by the number representing first letter and if a word has odd number of letters then it will be replaced by number representing middle letter.

Step VII: One is added to odd numbers and two is added to even numbers.

Step VIII: Numbers are arranged in ascending order from left end.

Input: biscuit decide hideout silent essential author gesture

Step I: author biscuit decide hideout silent essential gesture

Step II: author decide biscuit hideout silent essential gesture

Step III: author decide silent biscuit hideout essential gesture

Step IV: author decide silent biscuit gesture hideout essential

Step V: author decide silent biscuit gesture hideout essential

Step VI: 01 04 19 03 20 05 14

Step VII: 02 06 20 04 22 06 16

Step VIII: 02 04 06 06 16 20 22

36. C

37. A

38. D

39. C

40. C

Solution 36-40

As per the pattern if the runs of the players are an even number then in step 1, run scored is divided by 6 then in step 2, the value obtained in step 1 is multiplied by 3 and

finally in step 3, the value obtained in step 2 is divided by 9, to obtain the player code.

If the runs of the players is an odd number then in step 1, run scored is divided by 3 then in step 2, the value obtained in step 1 is multiplied by 4 and finally in step 3, the value obtained in step 2 is divided by 2, to obtain the player code

Runs	Step 1	Step 2	Player codes
315	105	420	210
234	39	117	13
195	65	260	130
423	141	564	282
414	69	207	23
87	29	116	58
162	27	81	9
378	63	189	21

Distribution of players according to the player codes in team P and team Q,

Team P			
Runs	Step 1	Step 2	Player codes
162	27	81	9
234	39	117	13
378	63	189	21
414	69	207	23

Team Q			
Runs	Step 1	Step 2	Player codes
87	29	116	58
195	65	260	130
315	105	420	210
423	141	564	282

Solution 41-45

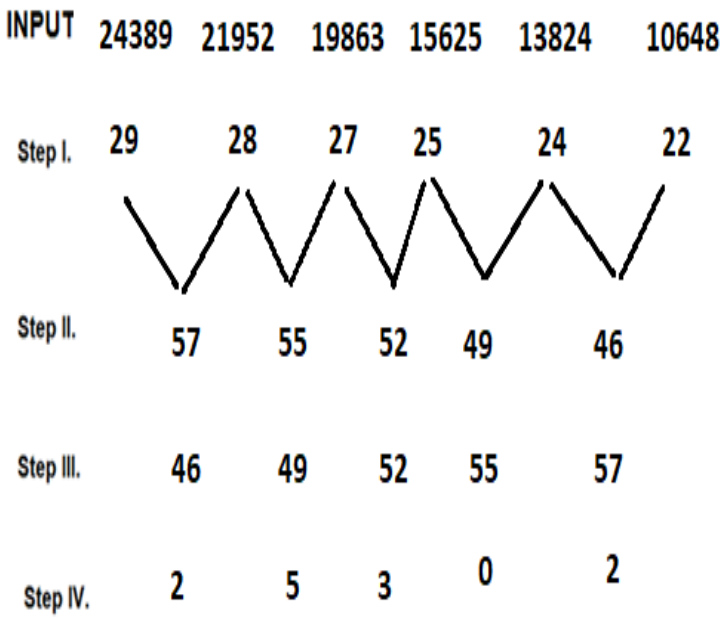
Input: 24389 21952 19863 15625 13824 10648

Step I: All the numbers in the given input are cubes of two digit numbers so, take the cube root of all the numbers in step-1

Step II: Sum of first and 2nd number, 2nd and 3rd number and 3rd and 4th number and so on from the left side of step I

Step III: Arrange all the numbers in the ascending order.

Step IV: Difference of digit of all numbers. Lower number is subtracted from higher number.



41. D

42. D

43. E

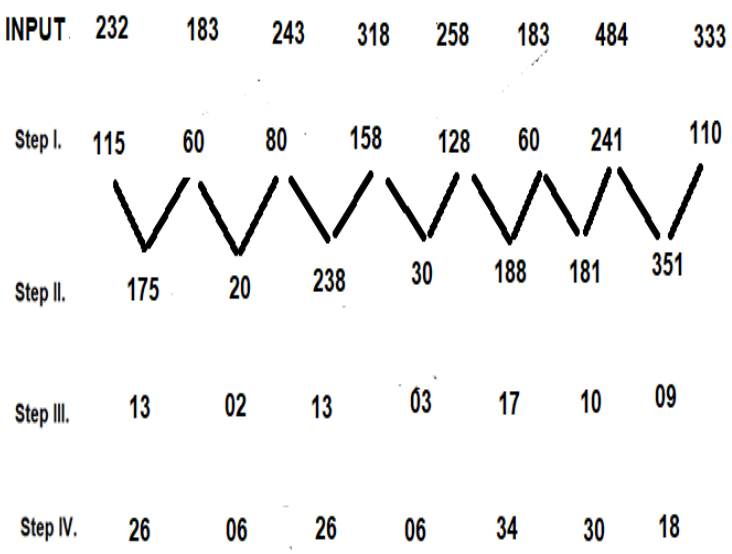
44. B

45. C

Input Output Part 2

Directions: Study the given information to answer the questions based on it.

A number arrangement machine when given an input line of numbers rearranges them following a particular rule. The following is an illustration of input and re-arrangement.



As per the rules followed in the above steps, find out in each of the following questions the appropriate steps for the given input.

Input – 262 153 237 308 156 261 482 555

1) Which of the following is the middle number in the last step?

a. 26

b. 18

c. 10

d. 30

e. None of these

2) What will be resultant if 3rd element from the left end in step II is multiplied to 2nd element from the right end in step III?

a. 164

b. 1510

c. 2310

d. 60

e. None of these

3) If all the numbers in step IV are arranged in the ascending order from the left to right, then how many numbers remain unchanged considering their original positions?

a. One

b. Two

c. Four

d. Three

e. None of these

4) Which of the following element is 2nd to the right of the element which is 6th from the right end in the step III?

a. 10

b. 13

c. 26

d. 18

e. None of these

5) What is the sum of the elements which are 3rd from the right end of step II and III?

a. 163

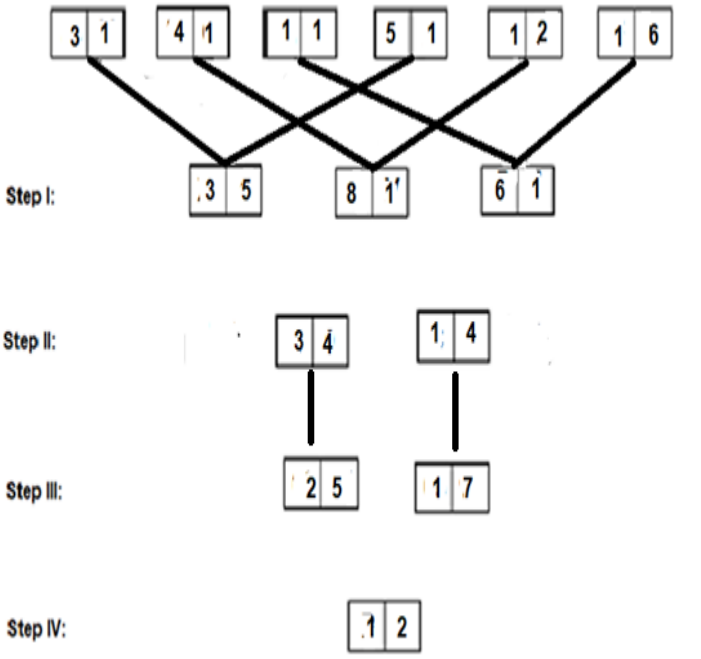
b. 174

c. 173

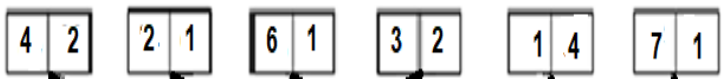
d. 189

e. None of these

Directions: Study the given information carefully and answer the given questions. An input-output is given in different steps. Some logical operations are done in each step. No logical operation is repeated in next step.



As per the rules followed in the steps given above, find out in each of the following questions the appropriate step for the given input.



6) Which of the following combinations represents the first digit of 2nd table of step II and second digit of first table of step III?

a. 4, 1

b. 3, 2

c. 2, 1

d. 5, 3

e. None of these

7) Which of the following combinations represents the 2nd table of step III?

a. 1, 1

b. 1, 4

c. 2, 4

d. 1, 3

e. None of these

8) What is the product of 1st digit of 2nd table of step II and 2nd digit of 3rd table of step I?

a. 20

b. 21

c. 24

d. 30

e. None of these

9) What is the difference between the 1st digit and 2nd digit of step IV of the given input?

a. 1

b. 2

c. 3

d. 7

e. None of these

10) What is the sum of 2nd digit of 2nd tables in step I and 2nd digit of 2nd table of step III?

a. 5

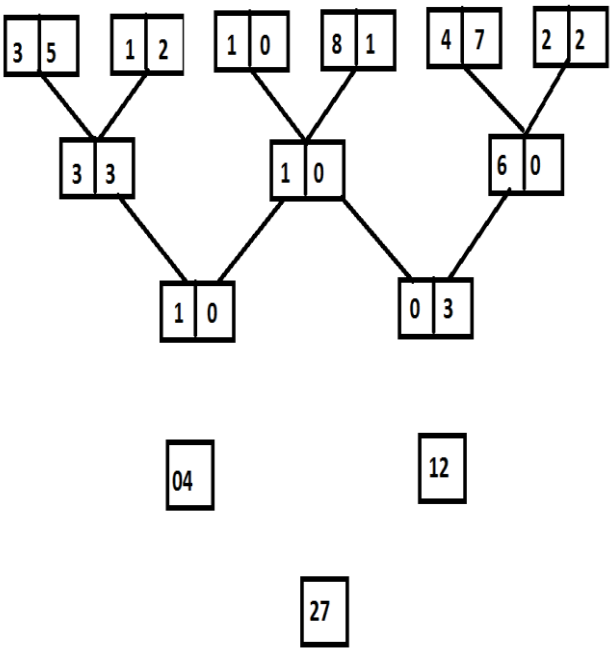
b. 7

c. 6

d. 4

e. None of these

Direction: Read the following given information carefully and answer the questions. An input-output is given in different steps. Some mathematical operations are done in each step. No mathematical operation is repeated in next step.



As per the rules followed in the steps given above, find out in each of the following questions the appropriate step for the given input.

23 73 48 13 53 11

11) What will be the sum of the numbers in Step 1?

a. 159

b. 162

c. 48

d. 164

e. None of these

12) Which of the following number is obtained in the last step?

a. 3

b. 27

c. 64

d. 48

e. 125

13) What is the multiplication of all numbers in step2?

a. 250

b. 382

c. 135

d. 180

e. 278

14) Which of the following is the step 3?

a. 15, 09

b. 75,20

c. 12, 25

d. 12, 36

e. There is no such step.

15) What is the sum of second block in step 1 and second digit of a number in second block in step 2?

a. 64

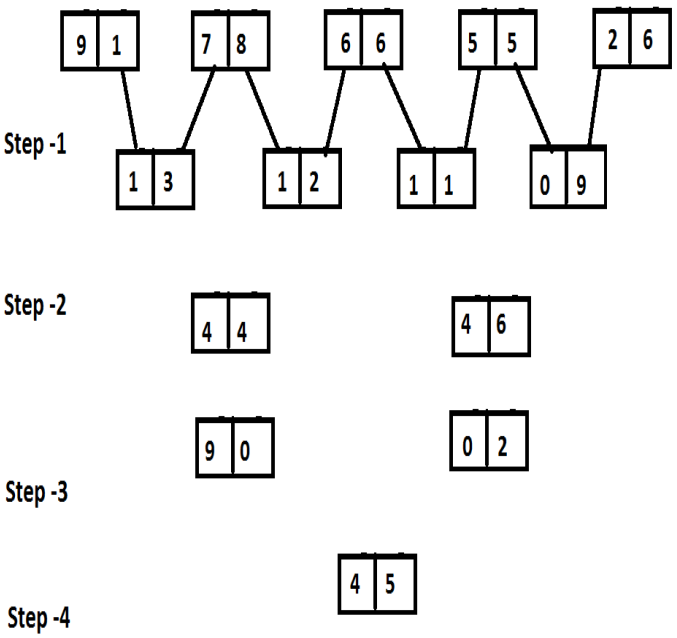
b. 73

c. 72

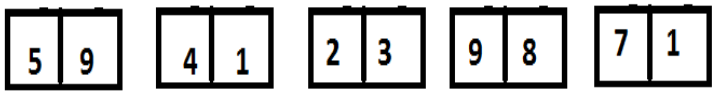
d. 79

e. 15

Direction: Read the following given information carefully and answer the questions. An input-output is given in different steps. Some mathematical operations are done in each step. No mathematical operation is repeated in next step.



As per the rules followed in the steps given above, find out in each of the following questions the appropriate step for the given input.



16) Which of the following represent the difference between the first digit of the second number and second digit of the first number in Step 2?

a. 9

b. 1

c. 4

d. 3

e. 0

17) If the value 8.5 is added to final output, then what will be the resultant value?

a. 2

b. 19

c. 21.5

d. 19.5

e. 18

18) If the second digit of all blocks in Step I is halved and then added the half numbers, what will be the result?

a. 4.5

b. 3

c. 6

d. 4

e. 5.5

19) Find the difference of two numbers in Step 3?

a. 76

b. 8

c. 92

d. 75

e. 10

20) Which is the smallest number in Step 1?

a. 10

b. 11

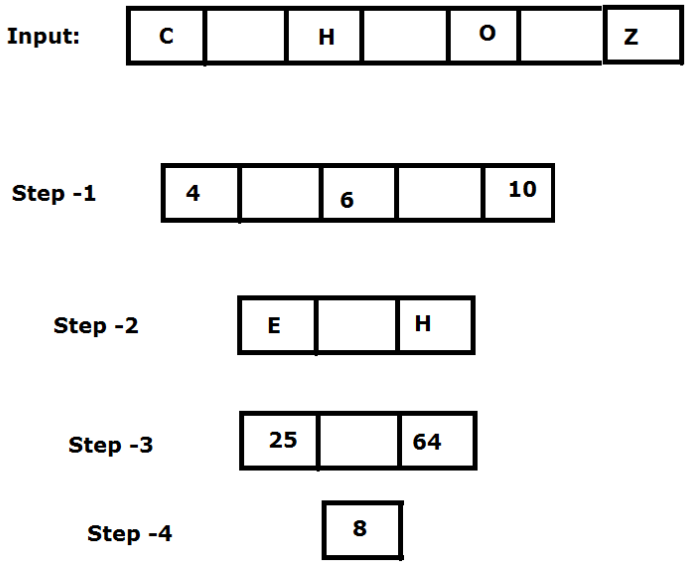
c. 12

d. 08

e. 06

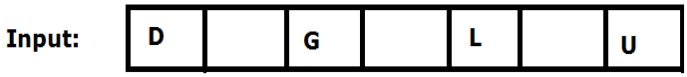
Directions 21-25: Study the given information carefully and answer the given questions.

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



Step 4 is the last step of the rearrangement.

As per the rules followed in the above steps, find out the answers to each of the following input



21) Find the sum of the numbers in step 1?

a. 12

b. 14

c. 18

d. 16

e. None of these

22**) What is the division of number which is highest to the lowest number that occurs in Step 3?**

a. 4

b. 9

c. 16

d. 25

e. 36

23) What is the final number in step 4?

a. 6

b. 5

c. 4

d. 9

e. 8

24) If the last step number is multiplied by 4 what will be the final answer?

a. 25

b.38

c.36

d. 32

e. None of these

25) If all the number of the Step-3 are added then what will be the answer?

a. 45

b.48

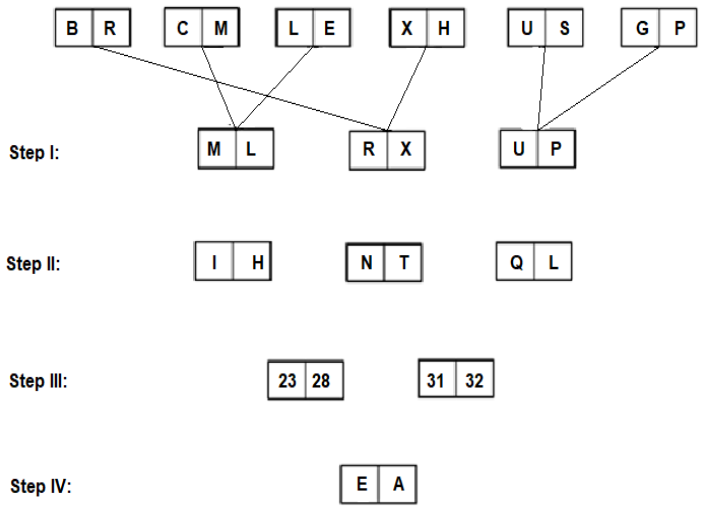
c.44

d. 32

e. None of these

26-30 Study the given information carefully and answer the given questions.

An input-output is given in different steps. Some mathematical operations are done in each step. No mathematical operation is repeated in next step.



As per the rules followed in the steps given above, find out in each of the following questions the appropriate step for the given input.

26) Which among the following numbers are in 2nd table in step III of the given input?

a. 13, 15

b. 18, 19

c. 34, 19

d. 23, 17

e. None of these.

27) What are the letters in the final table of the given input?

a. E, P

b. C, O

c. E, C

d. P, O

e. None of these

28) What are the letters in the 2nd table in step II of the given input?

a. P, L

b. R, X

c. T, P

d. Q, L

e. None of these

29) Which letter is in the 2nd part of the 3rd table of Step I of the given input?

a. V

b. K

c. R

d. W

e. None of these

30) If all the number of the second last step are added then what will be the answer?

a. 85

b. 84

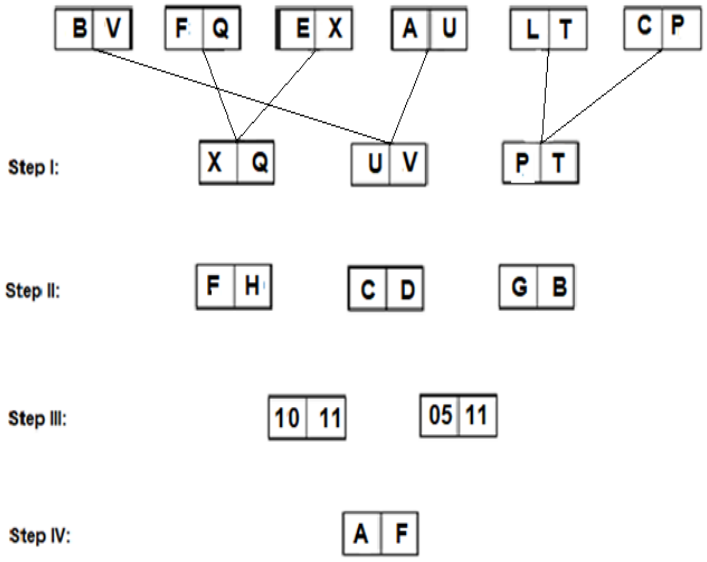
c. 88

d. 86

e. 82

Study the given information carefully and answer the given question-ns.

An input-output is given in different steps. Some mathematical operations are done in each step. No mathematical operation is repeated in next step.



As per the rules followed in the steps given above, find out in each of the following questions the appropriate step for the given input.

31) Which among the following numbers are in 1st table of the step III?

a. 12, 17

b. 12, 16

c. 13, 16

d. 17, 16

e. None of these

32) Which of the following letters are in 2nd table of the step II?

a. W, P

b. R, Y

c. J, D

d. I, G

e. None of these

33) Which of the following letters are in step IV?

a. D, E

b. T, Z

c. Y, U

d. I, O

e. D, D

34) Which is 3rd element from the left in step-2?

a. E

b. G

c. I

d. J

e. None of these

35) If all the number of the second last step are added then what will be the answer?

a. 55

b. 54

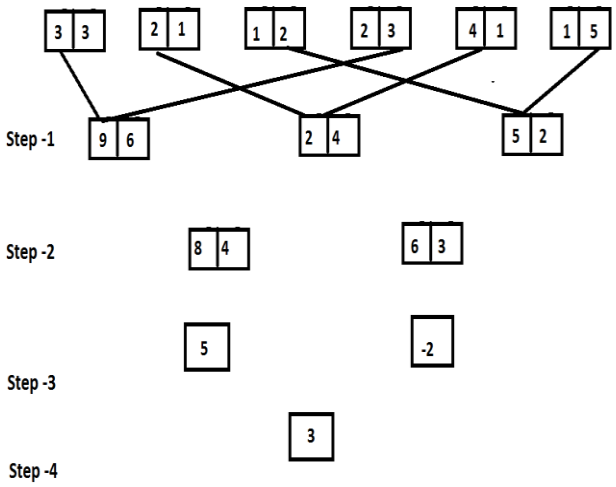
c. 58

d. 56

e. 52

Directions: Study the given information carefully and answer the given questions.

An input-output is given in different steps. Some mathematical operations are done in each step. No mathematical operation is repeated in next step but it can be repeated with some other mathematical operation (as multiplication can be used with subtraction in step 1 and same can be used with addition in step 2).



As per the rules followed in the steps given above, find out in each of the following questions the appropriate step for the given input.

36) Which of the following represents the product of the first digit of the second value and the second digit of the first value in step II of the given input?

a. 10

b. 25

c. 2

d. 35

e. 5

37) Which of the following combinations represent the second digit of the third block and the first digit of the second block in step I of the given input?

a. 3, 2

b. 2, 4

c. 4, 2

d. 2, 2

e. 2, 8

38) If the value '2' is multiplied with the final output then what will be the resultant value?

a. 18

b. 16

c. 06

d. 12

e. -12

39) Find the difference of two numbers obtained in Step II?

a. 30

b. 60

c. 21

d. 45

e. None of these

40) What is the sum of the numbers of step-3?

a. 3

b. 6

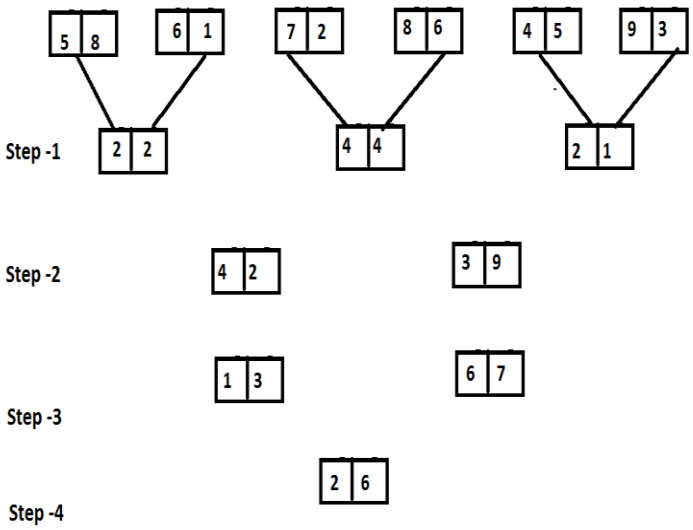
c. 2

d. 4

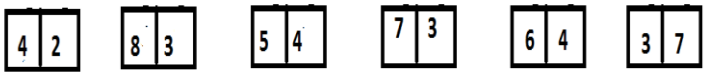
e. None of these

Directions: Study the given information carefully and answer the given question.

An input-output is given in different steps. No mathematical operation is repeated in next step but it can be repeated with some other mathematical operation (as multiplication can be used with subtraction in step 1 and same can be used with addition in step 2).



As per the rules followed in the steps given above, find out in each of the following questions the appropriate step for the given input.



41) What is the sum of inverse of the numbers obtained in step 3?

a. 87

b. 122

c. 78

d. 85

e. 135

42) What is the difference between the first block obtained in step 2 and second block obtained in step 3?

a. 12

b. 29

c. 26

d. 14

e. 21

43) What will be the final result of the given input?

a. 26

b. 88

c. 56

d. 42

e. None of these

44) What will be the difference between the sum of numbers in the second last step and the sum of numbers in the second step?

a. 39

b. 48

c. 46

d. 42

e. None of these

45) What is the sum of the numbers in step 2?

a. 76

b. 88

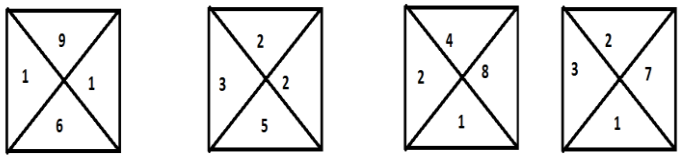
c. 78

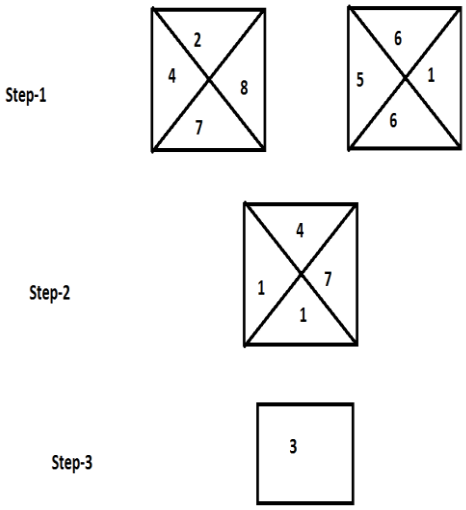
d. 72

e. None of these

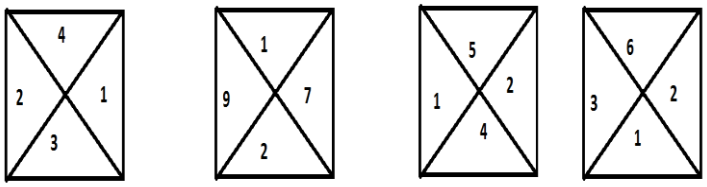
Directions: Study the given information carefully and answer the given question.

Below are input-output, steps responsive mathematical operations on a set of numbers according to which you need to answer the following questions.





As per the rules followed in the steps given above, find out in each of the following questions the appropriate step for the given input.



46) Find the difference between sum of numbers obtained in 1st step and sum of numbers obtained in all other steps?

a. 25

b. 35

c. 20

d. 15

e. None of these

47) How many elements in step 1(unique) are multiples of 6?

a. 0

b. 1

c. 2

d. 3

e. None of these

48) If all the numbers in step 2 are multiplied with each other and divided by the answer obtained in step 3, and the quotient of the same is divided by the number obtained in step 3, what's the remainder?

a. 0

b. 1

c. 2

d. 3

e. None of these

49) If the numbers 4 and 5 are reversed in step 2, what is the difference between the old output and new output?

a. 0

b. 1

c. 2

d. 3

e. None of these

50) What is the sum of the numbers in step 2?

a.17

b.16

c.14

d. 13

e. None of these

Input Output Part 2– Answer and Explanation

1

. a

2. c

3. c

4. b

5. c

Solutions 1-5:

Given input is

262 153 237 308 156 261 482 555

Step I: Divide all the even numbers by 2 and then subtract 1 from the obtained numbers and divide all the odd numbers by 3 and then subtract 1 from the obtained numbers.

Step II: Sum of first and 2nd number from the left side of step I then difference of 2nd and 3rd number then sum of 3rd and 4th number and so on.

Step III: Add all the digits of each number.

Step IV: Multiply odd number by 2 and even number by 3.

INPUT	262	153	237	308	156	261	482	555
Step I.	130	50	78	153	77	86	240	184
Step II.	180	28	231	76	163	154	424	
Step III.	09	10	06	13	10	10	10	
Step IV.	18	30	18	26	30	30	30	

6. E

7. C

8. E

9. E (c)

10. E

Solutions 6-10:

Step I: First digit of first column is multiplied by the 2nd digit of 4th column and 2nd digit of 1st column is multiplied by 1st digit of 4th column.

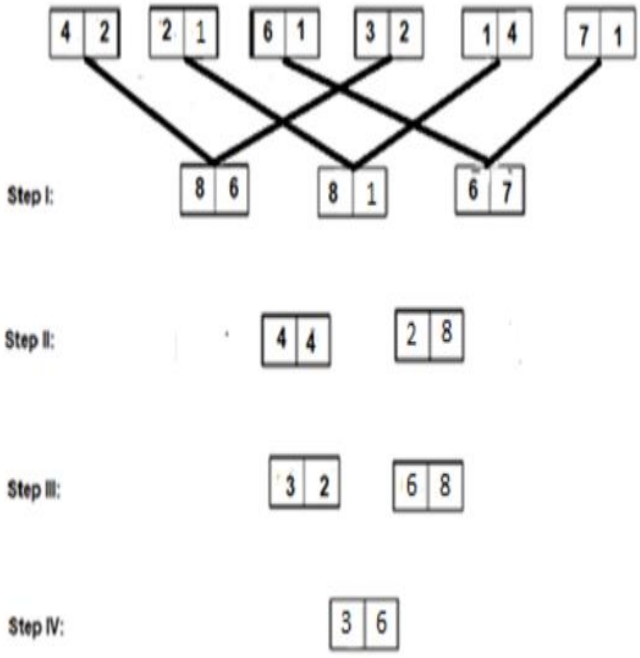
Similar operation is applied on the 2nd and 3rd column with 5th and 6th columns respectively.

In step II: Addition of 1st digits of all the columns and then multiply by 2, similarly addition of 2nd digits of all the columns and then multiply by 2.

In step III: Square each digit in first and 2nd column and then add both the squared number of each column of step II.

In step IV: Subtract 1st digit of 1st column with the 1st digit of 2nd column and similarly subtract the 2nd digit of 1st column with 2nd digit of 2nd column of step III.

The final arrangement is as follows:



11. A

12. B

13. C

14. D

15. B

Solutions 11-15

Step 1: Add the digits within blocks. Resultant of 1st block is summed with the resultant of 2nd block and obtained sum is multiplied with smallest number among them. In the same way resultant of 3rd block and 4th

block is added, resultant number is multiplied with smallest number among two and so on.

Example, consider 1st two blocks

23 and 73

Sum of digits of 23 = 5

Sum of digits of 73 = 10

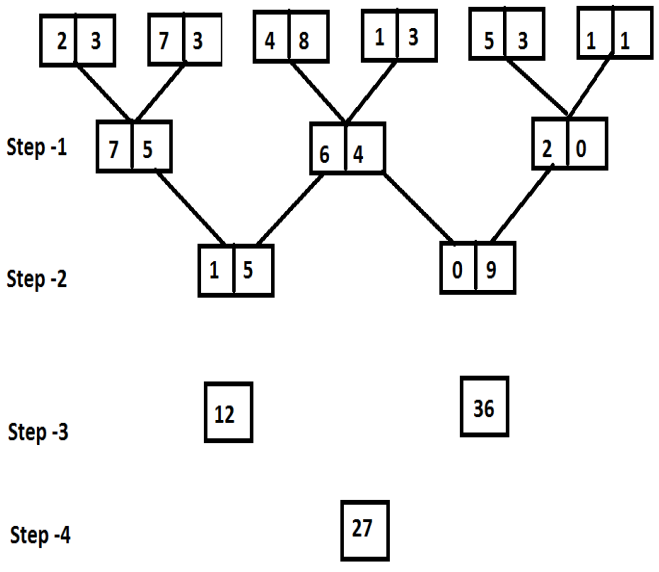
Then adding both result = 5 + 10 = 15.

Multiplying with smallest number among them = 15 × 5 = 75. And So on.

Step 2: 1st digits of each block of step 1 is added to a get single block and the second digits of each block is added to form a single number.

Step 3: Take the difference within the blocks of step 2 and if the number is even then multiply it with 3, if it is odd number then multiply with 4.

Step 4: Larger number is divided by Smaller number and cubing the obtained result to get single number.



16. C(d)

17. B

18. C

19. A

20. D

Solutions 16-20

Step 1: Numbers in consecutive block is added, then taking square root of the sum.

Example,

59 + 41 = 100

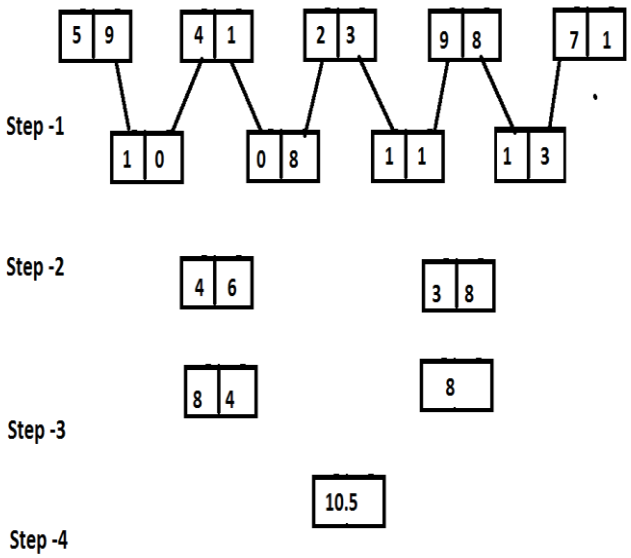
41 + 23 = 64

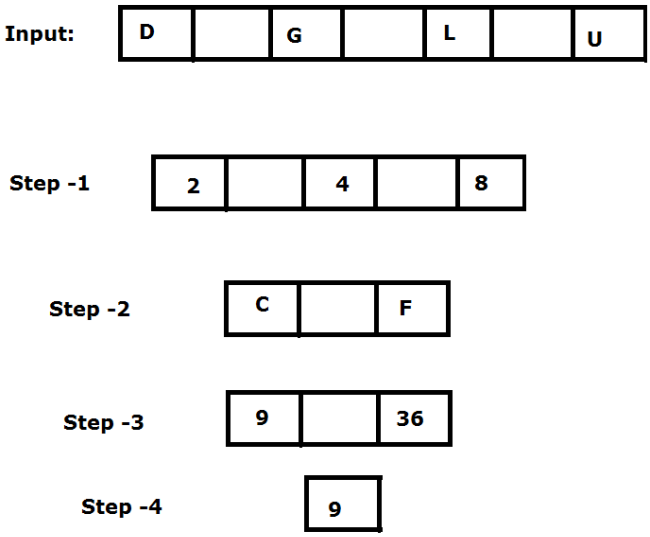
23 + 98 = 121 so on

Step 2: Number in 1st block and last block is added then doubled. Number in 2nd block and 3rd block is added, then the number is doubled.

Step 3: Sum of step 2 and difference of Step 2 is taken.

Step 4: Larger number is divided by smaller number.





21. B

22. A

23. D

24. C

25. A

Solution 21-25

Step 1: This step tells us the number of alphabets in between the two given letters.

Step 2: The arithmetic mean of the two numbers is taken and the corresponding alphabet is inserted as per dictionary order.

Step 3: This is the square of the arithmetic mean.

Step 4: Sum of the two numbers (9 + 36 = 45) and the number is added with itself up to a single digit (4+5 =9).

26. C

27. B

28. A

29. B

30. D

Solutions 26-30

Step I: The letter (among the two letters of 1st table) which has highest alphabetical number in the alphabetical series is written in the 1st part of the 2nd table. And the letter (among the two letters of 4th table) which has highest alphabetical number in the alphabetical series is written in the 2nd part of the 2nd table.

Similarly, the letter (among the two letters of 2nd table) which appears last in the alphabetical series, is written in the 1st part of the 1st table. And the letter (among the two letters of 3rd table) which appears last in the

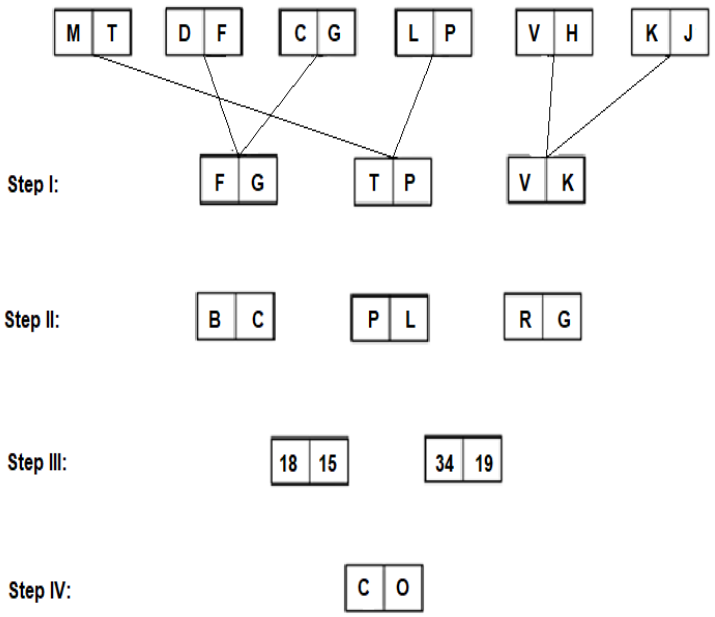
alphabetical series, is written in the 2nd part of the 1st table. Same is repeated for the remaining tables.

Step II: Write the immediately preceding 4th letters of all the letters in the corresponding parts of the tables.

Step III: Sum of the values of the letters of 1st part of 1st table and 1st part of 2nd table is written in 1st part of the 1st table. Again, sum of the values of the letters of the 2nd part of 1st and 2nd part of 2nd table is written in 2nd part of the 1st table. The same is repeated for the next table.

Step IV: The corresponding letter (in alphabetical series) representing the difference of the numbers of both the parts of the 1st table is written in the 1st part while the corresponding letter (in alphabetical series) representing the difference of the numbers of both the parts of the 2nd table is written in the 2nd part of the table.

The final arrangement will be:



31. B

32. D

33. E

34. C

35. C

Solutions 31-35

Step I: The 2nd letter (among the two letters of 1st table)is written in second part of second table And the 2nd letter (among the two letters of 4th table) is written in the 1st part of the 2nd table.

Similarly, the 2nd letter (among the two letters of 2nd table) is written in the 2nd part of the 1st table. And the 2nd letter (among the two letters of 3rd table) is written in the 1st part of the 1st table. Same is repeated for the remaining tables.

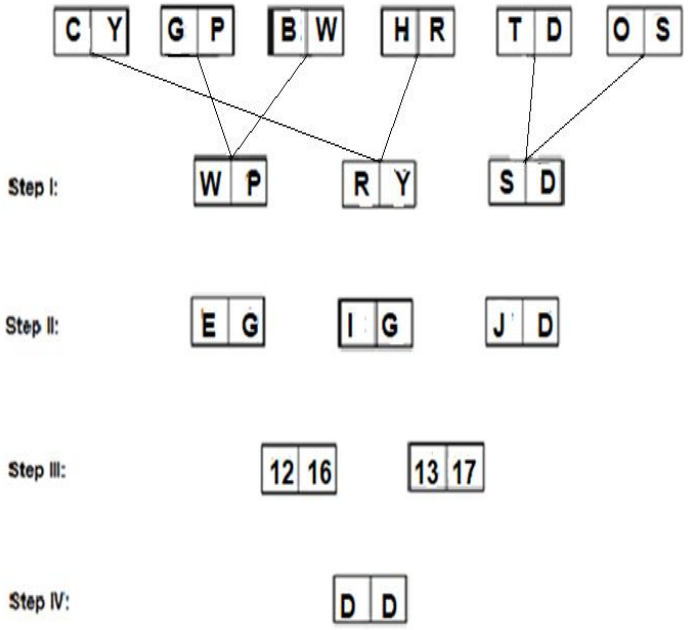
Step II: Write each letter according to the sum of place values (in English alphabetically series) of the letter which appears in step 1. Example: If in step 1 first table consists W and P whose place value is 23 and 16 so the sum of each place value i.e. 2+3=5 which represents E and 1+6=7 which represents G so the first table of step II contains E and G in 1st and 2nd part respectively and same follows on the rest of the tables.

Step III: Sum of the values of the letters of 1st part of 1st table and 2nd part of the 2nd table and 2nd part of the 1st table and 1st part of 2nd table. Similarly, sum of the values of the letters of 1st part of 2nd table and 2nd part of the 3rd table and 2nd part of the 2nd table and 1st part of 3rd table.

Step IV: The corresponding letter (in alphabetical series) of the difference of the numbers of both the parts of the 1st table is written in the 1st part while the corresponding letter (in alphabetical series) of the difference of the

numbers of both the parts of the 2nd table is written in the 2nd part of the table.

The final arrangement is as follows:



36. E

37. C

38. D

39. B

40. B

Solutions 36-40:

Step I:

(First Block) - Multiply the first digit of the first block with the second digit of the fourth block. i.e. (3 × 3) = 9.

(Second Block) - Multiply the second digit of the first block with the first digit of fourth block. i.e. (3 × 2) = 6.

Same procedure is applied for all the blocks.

Step II:

(First block)- Add the first digit of all numbers in step I and then multiply by 3 and write down the value in reverse order.

i.e. (9 + 2 + 5) = 16 × 3 = 48.

Reverse of 48 is 84.

(Second block) - Add the second digit of all numbers in step I and then multiply by 3 and write down the value in reverse order.

i.e. (6 + 4 + 2) = 12 × 3 = 36.

Reverse of 36 is 63.

Step III:

(First block) - Subtract the second digit of second block by the first digit of the first block.

i.e. (8 - 3) = 5.

(Second block)- Subtract the first digit of second block by the second digit of the first block.

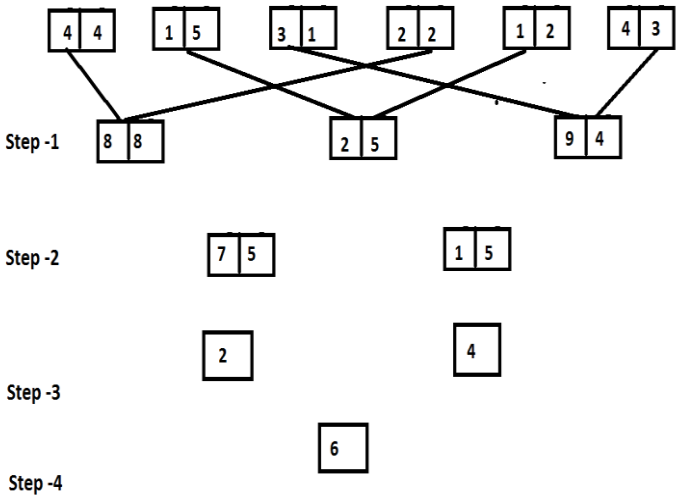
i.e. (4 - 6) = -2.

Step IV:

Add both numbers.

i.e. [5 + (-2)] = 3.

Same procedure is applied for the given input:



41. B

42. D

43. A

44. C

45. C

Solutions 41-45:

Step 1:

Difference between the product of first digits from both the blocks and product of second digits from both the blocks i.e. 5 × 6 = 30 and 8 × 1 = 8.

Difference between 30 and 8 is 22.

Same process is applied in all pair of blocks.

Step 2:

In this step, first digit of each block is added and then multiplied by 3 and the result is added to 18 i.e. (2 + 4 + 2) × 3 + 18 = 42

Same process is to be repeated (on second digits of all three blocks) to get the second block.

Step 3:

In this step, square of first digit of first block and square of first digit from second block is added and then product of first digit from both the blocks is subtracted from it i.e. 32 + 42 - 3 × 4 = 13.

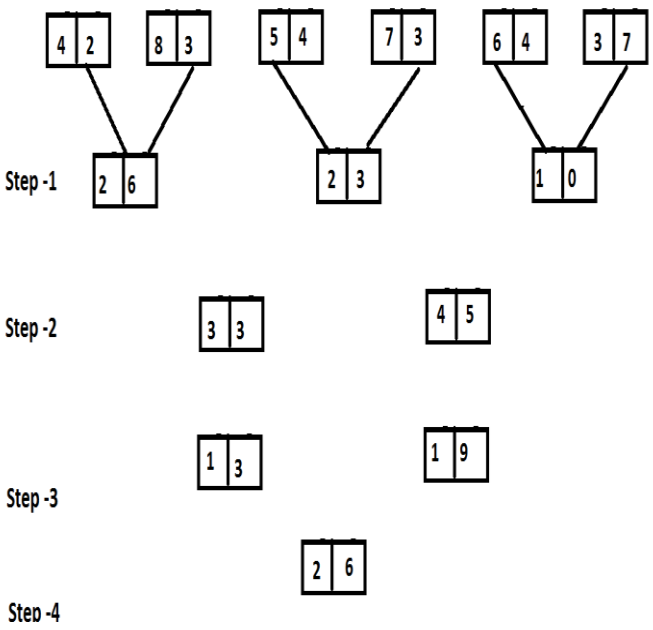
Same process is done on second digits of previous blocks to get the second block of this step.

Step 4:

Difference between the sum of the blocks and difference of both the blocks is calculated to get the final answer i.e. 13 + 67 = 80 and difference between 67 and 13 is 54.

Finally, difference between 80 and 54 is 26.

Same procedure is applied for the given input:



46. E

47. A

48. C

49. B

50. E

Solutions 46-50:

In Step 1, the corresponding elements (digits) from circle 1 and circle 4 are added and are represented in the first circle.(If it is greater than 9, then the digits are further added. Example, 11 would give us 2)

4 + 6 = 10 ⇒ 1 + 0 = 1

1 + 2 = 3

3 + 1 = 4

2 + 3 = 5

And the second circle is obtained by adding the corresponding elements from circle 2 and 3 similarly.

For obtaining step 2, we subtract both the corresponding elements from both circles and take the positive value to get further elements.

1 - 6 = -5 ---- taken as 5

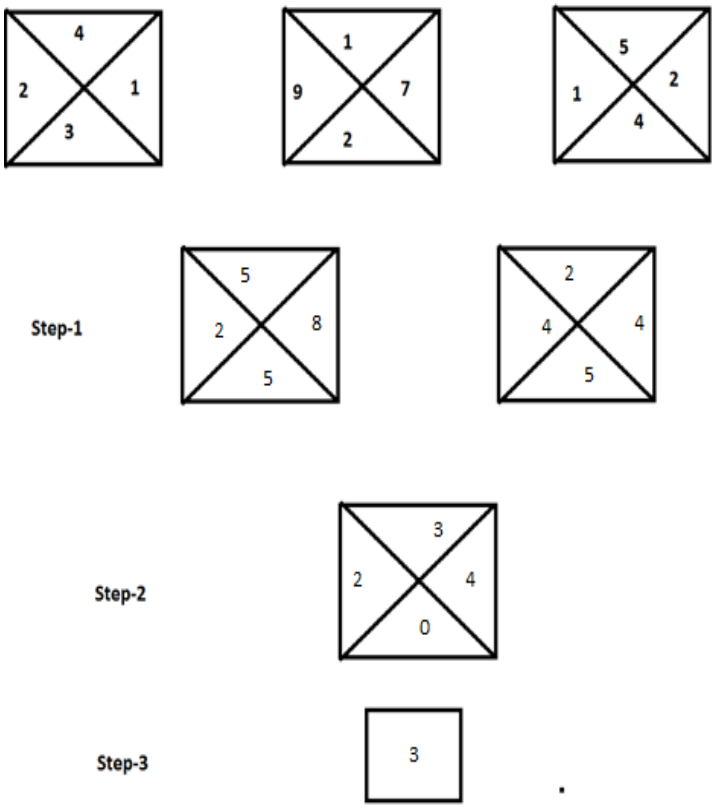
3 - 9 = -6 ----taken as 6

6 - 4 = 2

1 - 5 = -4 taken as 4

The ouptut is obtained by adding the horizontal elements and subtracting the sum of the vetical elements from them:

(6 + 4) - (5 + 2) = 3



Input Output Box Type

Directions (1-5): Study the following diagram and convert it into other diagrams by implementing the instructions which is given in each step to get next step.

8F2	13O11	18I20
6K13		24K21
20D6	9G26	25F13

B6H	K9I	P3R
D5K		V5S
F4T	G1X	M6Y

Replace the letters with their immediate following letter in the alphabetical series and increase the number by 2.

Step 1:

C8I	L11J	Q5S
E7L		W7T
G6U	H3Y	N8Z

For step 2:

(i) If element contains even number then subtract 2 from the number and exchange the position of the letters after replacing each by their immediate preceding letter in the alphabetical series

(ii) If element contains odd number then add 4 in the number and replace each letters by their immediate followed letter in the alphabetical series.

Step-2:

H6B	M15K	R9T
F11M		X11U
T4F	I7Z	Y6M

For step 3: Step 3 is coded in some special pattern.

Step 3:

As per the rules followed in the above step, find out the appropriate steps for the given input and answer the following questions:

S5R	K8U	K8H
L8Q		V5S
Z1E	V6H	X4Z

1. Which among the following element appears in the 2nd column of 1st row in step 3?

a. 21K20

b. 21H11

c. 8H11

d. 17H12

e. None of these

2. Which element appears in the 3rd row of 2nd column in step 2 ?

a. U11T

b. U8K

c. Q18L

d. B7G

e. H6V

3. Which element appears in the 3rd column of 1st row in step 1?

a. T7S

b. L10V

c. L10I

d. M10R

e. W7T

4. Which element appears in the 3rd column of 2nd row in step 3?

a. 17R12

b. 24K21

c. 2G7

d. 8F22

e. 26D24

5. Which among the following element appears in the 3rd row of 3rd column in step 3?

a. 21H11

b. 8H11

c. 24K21

d. 8F22

e. 26D24

Directions (6-10): Study the following diagram and convert it into other diagrams by implementing the instructions which is given in each step to get next step.

K8L	D5G	X4S
F5M		A9W
G8J	E3Q	D4E

Replace the letters with their immediate preceding letter in the alphabetical series and decrease the number by 1.

Step 1:

J7K	C4F	W3R
E4L		Z8V
F7I	D2P	C3D

For step 2:

(i) If element contains even number then Add 2 in the number and exchange the position of the letters after replacing each by their immediate followed letter in the alphabetical series

(ii) If element contains odd number then subtract 2 from the number and exchange the place of letters.

Step-2:

K5J	G6D	R1W
M6F		W10A
I5F	Q4E	D1C

For step 3: Step 3 is coded in some special pattern.

Step 3:

ELK	FHE	ASX
FNG		JXB
EJG	DRF	AED

As per the rules followed in the above step, find out the appropriate steps for the given input and answer the following questions:

F5R	H6U	K8N
S6D		H7R
V3D	N7F	P9O

6.Which among the following element appears in the 2nd column of 3RD row in step 2?

a. D3S
b. R8H
c. D4V
d. M10P
e. None of these

7.Which element appears in the 1st row of 2nd column in step 3?

a. FSG
b. CUH
c. ENH
d. CET
e. HSI

8.Which element appears in the 1st column of 2nd row in step 2?

a. R6F
b. T3G
c. M5J
d. C3R
e. R8H

9.Which element appears in the 3rd column of 3rd row in step 3?

a. FSG
b. CUH
c. JPQ
d. CET
e. HSI

10.Which among the following element appears in the 1st row of 3rd column in step 3?

a. FSG
b. CUH
c. JNQ
d. ENK
e. HSI

Direction (11-15): Study the following diagram and convert it into other diagrams by implementing the instructions which is given in each step to get next step.

C7C	I6H	K6R
A3I		A3B
S4R	J6I	Q4L

P5M	I7J	R4S
B3A		I3A
R6K	H6I	B8D

Interchange the opposite boxes to get step 1 as mentioned in the above figure.

B8D	H6I	R6K
I3A		B3A
R4S	I7J	P5M

For Step-2 (i) Associate each alphabet with a number. This number is the alphabet's position in list of alphabets e.g. A – 1, B – 2 etc.

(ii) Find the sum in each cell by adding numbers associated with each alphabet and the number present in cell.

(iii) If the sum is a multiple of 2, then in the cell, increase the first alphabet by 1, decrease the second alphabet by 1 and decrease the number by 1.

(iv) If the sum is a multiple of 3, then in the cell, increase both the alphabets by 1 and increase the number by 1.

(v) If number is both the multiple of 2 and 3 or is neither a multiple of 2 nor 3, then in the cell, exchange the position of first and second alphabet and don't make any change in number.

STEP 2:

For Step-3: It is coded in some special pattern (modified)

24G24	18F19	16F9
26C18		26C25
8D9	17F18	10D15

As per the rules followed in the above step, find out the appropriate steps for the given input. And answer the following questions.

F5R	K7G	H7T
L9V		K8H
D5S	V6D	L3E

11. Which element is present in of 2nd column and 3rd row in step 3?

a.23H14

b.23E5

c.14B5

d.20G16

e. None of these

12. Which element is present at rightmost top corner in step 2?

a. M2D

b. V9L

c. E4R

d. G7K

e. T7H

13. Which element appears in the 3rd column of 3rd row in step 3?

a.23H14

b.23E5

c.14B5

d.6K5

e.9E21

14. Which element appears in the 1st column of 2nd row in step 2?

a. D8M

b. D5N

c. L9I

d. E12Z

e. G6V

15. Which of the following is not a corner element in step 3?

a.14B23

b.22D9

c.4E24

d.7G19

e.9E21

Direction (16-20): Study the following diagram and convert it into other diagrams by implementing the instructions which is given in each step to get next step.

ER4	TH6	SD4
DS3		TD7
HD5	CV7	NG8

Interchange the opposite boxes to get step 1 as mentioned in the above figure.

NG8	CV7	HD5
TD7		DS3
SD4	TH6	ER4

For Step-2 (i) Associate each alphabet with a number. This number is the alphabet's position in list of alphabets e.g. A – 1, B – 2 etc.

(ii) Find the sum in each cell by adding numbers associated with each alphabet and the number present in cell.

(iii)If the sum is an even number, then in the cell, replace the first alphabet by its succeeding letter, do not change second alphabet and increase the number by 2.

(iv)If the sum is an odd number, then in the cell, replace both the alphabets by its succeeding letter and decrease the number by 2.

For Step-3:

OH6	DV9	IE3
UE5		ES5
TE2	UH8	FS2

It is coded in some special pattern (fully modified)

OGF	CUI	IEC
UEE		ERE
SEB	UGH	ERB

As per the rules followed in the above step, find out the appropriate steps for the given input. And answer the following questions.

GD5	GH7	MN8
ER4		LK9
AS2	IU7	PO4

16. Which element is present in of 1st column and 3rd row in step 3?

a. NLJ

b. GTA

c. OPH

d. MOF

e. MNG

17. Which element is present at rightmost bottom corner in step 2?

a. MK11

b. FS2

c. NO6

d. HH9

e. HD7

18. Which element appears in the 1st row of 3rd column in step 3?

a. NLJ

b. ARD

c. ERB

d. GCG

e. None of these

19. What is sum of numbers present in rightmost bottom corner and leftmost upper corner in step 2?

a. 8

b. 10

c. 9

d. 11

e. 7

20. Which of the following is not a corner element in step 3?

a. POB

b. IUE

c. ARD

d. MOF

e. GCG

Directions (21-25): Study the following diagram and convert it into other diagrams by implementing the instructions which is given in each step to get next step.

ILW	QPL	TMU
GHP		GLO
EHZ	FFQ	ULR

D5R	O9J	F6G
M4V		L5T
C4X	L2W	K8H

Replace the letters with their immediate previous letter in the alphabetical series and increase the number by 3.

Step 1:

C8Q	N12I	E9F
L7U		K8S
B7W	K5V	J11G

For step 2:

(i) If element contains prime number then subtract 1 from the number and replace alphabet each by their immediate preceding letter in the alphabetical series.

(ii) If element contains non-prime number then add 2 to the number and replace each letters by their immediate followed letter in the alphabetical series.

Step-2:

D10R	O14J	F11G
K6T		L10T
A6V	J4U	I10F

For step 3: Step 3 is coded in some special pattern.

Step 3:

As per the rules followed in the above step, find out the appropriate steps for the given input and answer the following questions:

V6F	U3Q	L8I
L9H		B7T
L8Y	W4E	C5R

21.Which among the following element appears in the 1st row of 3rd column in step 3?

a. UME
b. JJF
c. TLQ
d. SPO
e. GNY

22. Which element appears in the 2nd row of 2nd column in step 2 ?

a. V11F
b. U8Q
c. L14H
d. J10W
e. None of these

23.Which element appears in the left side lower most corner in step 3?

a. UME
b. JJF

c. SPO

d. DLQ

e. XHF

24.Which element appears in the right side uppermost corner in step 1?

a. T6P

b. K11H

c. A10S

d. V7D

e. B8Q

25.Which among the following element appears behind of JJF step 3?

a. TLQ

b. GNY

c. XHF

d. ILX

e. None of these

M10G	A5W	U4Z
L4R		L6Q
M7L	F5S	W6C

Direction (26-30): Study the following diagram and convert it into other diagrams by implementing the instructions which is given in each step to get next step.

V5D	G7T	N9M
M8R		K3S
V6A	Z4X	L9H

Interchange the opposite boxes to get step 1 as mentioned in the above figure.

L9H	Z4X	V6A
K3S		M8R
N9M	G7T	V5D

For Step-2 (i) Associate each alphabet with a number. This number is the alphabet's position in list of alphabets e.g. A – 1, B – 2 etc.

(ii) Find the sum of associate number of alphabet in each cell.

(iii) If the sum is an even number , then in the cell, increase the first alphabet by 1, decrease second alphabet by 1 and increase the number by 1.

(iv) If the sum is an odd number, then in the cell, decrease both the alphabets by 1 and decrease the number by 2.

For Step-3: It is coded in some special pattern.

10	19	43
26		23
18	20	20

As per the rules followed in the above step, find out the appropriate steps for the given input and answer the following questions:

F8H	R4E	B8X
K4S		L9A
R7G	K6F	Z4S

26. What is sum of element appears in the 1st row of 2nd column and 3rd row 2nd column in step 3?

a. 56
b. 54
c. 30
d. 37
e. None of these

27. Which among the following element appears in the 2nd row of 3rd column in step 2?

a. Y1R
b. J4E
c. Q5F
d. K7Z
e. L5R

28.Which element is diagonally faced to the number which is in the uppermost left corner in step 3?

a. 17
b. 18
c. 26
d. 19
e. 5

9.Which element appears in the right side uppermost corner in step 2?

a. Y1R
b. J4E
For step 2:
c. Q5F
d. C9W
e. Q2D

30. Which among the following element appears in front of Q2D step 2?

a. K6F
b. J4E
c. K3S
d. R4E
e. F8H

Directions (31-35): Study the following diagram and convert it into otherdiagrams by implementing the instructions which is given in each step to get next step.

A53	N89	G76
K67		C23
K76	L98	K21

Exchange the element of row one to row 3.Don't exchange Row 2.

Step 1:

K76	L98	K21
K67		C23
A53	N89	G76

(i) If element contains two digit prime number then subtract 4 from the number and replace letter by their immediate preceding letter in the alphabetical series

(ii) If element contains non-prime odd number then add 4 to the number and replace letter by their immediate followed letter in the alphabetical series.

(iii) If element contains non-prime even number then divide it by 2 and replace letter by their immediate followed letter in the alphabetical series.

Step-2:

L38	M49	L25
J63		B19
Z49	M85	H38

For step 3: Step 3 is coded in some special pattern.

Step 3:

O50	N62	O37
Q73		Y21
A75	N98	S46

As per the rules followed in the above step, find out the appropriate steps for the given input and answer the following questions:

S17	K85	L31
S29		T47

D88	V56	G76

31. Which among the following element appears in the 3rd column of 2nd row in step 3?

a. V49
b. D51
c. I43
d. H62
e. O101

32. Which element appears in right lowermost corner in step 2 ?

a. W28
b. H38
c. S43
d. L89
e. K27

33. Which element appears in the 3rd column of 1st row in step 3?

a. V49
b. D51
c. S46
d. I43
e. H62

34. Which element appears in left lowermost corner in step 1 ?

a. D88
b. V56
c. S29
d. S17

e. K85

35..Which element is diagonally faced to the number which is in the uppermost right corner in step 3?

48	3	34
19		14
13	12	41

a. V49

b. D51

c. I43

d. I31

e. O101

41	12	13
14		19
34	3	48

Direction (36-40): Study the following diagram and convert it into other diagrams by implementing the instructions which is given in each step to get next step:

W7R	B2C	Z2X
L5G		D3R
V7Z	L8H	O6D

Interchange the column 1 with column 3 to get step 1.Do not change column 2.

Z2X	B2C	W7R
D3R		L5G
O6D	L8H	V7Z

For Step-2 (i) Associate each alphabet with a number. This number is the alphabet's position in list of alphabets e.g. A – 1, B – 2 etc.

(ii) Find the difference between sum of the alphabet position in alphabet series and center number.

(iii) Then interchange the positions of cells to get step 2.

Step 2:

For Step-3: It is coded in some special pattern.

E25	C9	D16
E25		J100
G49	C9	L144

As per the rules followed in the above step, find out the appropriate steps for the given input. And answer the following questions.

G6D	M3C	H2A
X4U		T7Y
D5S	L8H	M3X

36. Which is sum of the numbers present in of 2nd column and 3rd row and 1st row 3rd column in step 2?

a.34

b.13

c.57

d.47

e.None of these

37. Which element is present at right lowermost corner in step 3?

a. C9
b. G49
c. K121
d. D16
e. D49

38. Which element appears in the immediately front of 5 in step 2?

a. 38
b. 41
c. 12
d. 18
e. None of these

K48	L81	B32
U343		Z16
E121	J27	A25

39. According to coding for step 3,what will be the code for 345?

a. F36
b. L60
c. O225
d. L144
e. M225

40. In which of the following is not a corner element in step 3?

a. I81
b. C9
c. G49
d. E25
e. None of these

KX	KI	BP
VG		YD
DK	KC	ZE

Direction (41-45): Study the following diagram and convert it into other diagrams by implementing the instructions which is given in each step to get next step.

A25	J27	E121
Z16		U343
B32	L81	K48

Interchange the opposite boxes to get step 1 as mentioned in the above figure.

For Step-2

(i) If the cell contains a perfect square number then take square root of that number and use that numbered letter in alphabet series. Decrease the first alphabet by 1.

ii)If the cell contains a perfect cube number then take cube root of that number and use that numbered letter in alphabet series. Increase the first alphabet by 1.

ii)If none of the above condition is followed then divide that number by 2 and use that numbered letter in alphabet series. Don’t change the first letter.

For Step-3: It is coded in some special pattern.

19	34	36
25		25
39	40	23

As per the rules followed in the above step, find out the appropriate steps for the given input. And answer the following questions.

G125	L38	F8
A1000		K36
I512	C18	R256

41. Which element is present in of 2nd column and 3rd row in step 2?

a. QP
b. CI
c. VG
d. FD
e. LS

42. Which element is present in front of JF in step 2?

a. CI
b. JH
c. QP
d. LS
e. HE

43. Which element appears in the 3rd column of 3rd row in step 3?

a.41
b.25
c.36
d.39
e.None of these

B3Z	B3C	Y1W
E5F		C2Q
O8H	R4Y	J6Q

44. Which element appears in the 3rd column of 2nd row in step 2?

a. BJ
b. CI
c. VG
d. FD
e. None of the above

45. What is sum of the number which is in the cell of right side uppermost corner and element in 2nd column and 3rd row in step 3?

a.66
b.69
c.59
d.60
e.75

Direction (46-50): Study the following diagram and convert it into other diagrams by implementing the instructions which is given in each step to get next step.

C4A	C4D	Z2X
F6G		D3R
P9I	S5Z	K7R

Replace the letters with their immediate preceding letter in the alphabetical series and decrease the number by 1.

For Step-2 (i) Associate each alphabet with a number. This number is the alphabet's position in list of alphabets e.g. A – 1, B – 2 etc.

(ii)Interchange the column 1 with column 3 to get step 1.Do not change column 2.

Y1W	B3C	B3Z
C2Q		E5F
J6Q	R4Y	O8H

(iii)Find the sum of the alphabet position in alphabet series and center number to obtain step 2

49	8	31
22		16
33	47	31

For Step-3: It is coded in some special pattern.

N	I	E
E		H
G	L	E

As per the rules followed in the above step, find out the appropriate steps for the given input and answer the following questions.

M3D	L4K	P9E
C8X		G7H
K7G	V6C	R5S

46. Which element is present at left lowermost corner in step 3?

a. G
b. I
c. F
d. K
e. None of these

47. Which of below element is not present in corner in step 1?

a. L2C
b. K3J
c. O8D
d. J6F
e. Q4R

48. Which element appears in the front of 19 in step 2?

a. 39
b. 24
c. 17
d. 27
e. 22

49. According to coding for step 3,what will be the code for 289 ?

a. L
b. S
c. T
d. U
e. R

50. What is sum of element of 3rd column 1st row and 3rd row and 3rd column in step 2?

a. 39

b. 42
c. 29
d. 43
e. 27

Input Output Box Type – Answer and Explanation

SOLUTIONS (1-5):

S5R	K8U	K8H
L8Q		V5S
Z1E	V6H	X4Z

Replace the letters with their immediate following letter in the alphabetical series and increase the number by 2.

Step 1:

T7S	L10V	L10I
M10R		W7T
A3F	W8I	Y6A

For step 2:

(i) If element contains even number then subtract 2 from the number and exchange the position of the letters after replacing each by their immediate preceding letter in the alphabetical series

(ii) If element contains odd number then add 4 in the number and replace each letters by their immediate followed letter in the alphabetical series.

Step-2:

U11T	U8K	H8K
Q8L		X11U
B7G	H6V	Z4X

For step 3: Step 3 is coded in some special pattern.

To obtain step-3: Each alphabet is replaced by number with respect to its alphabetical position and each number is replaced by alphabet with respect to its English alphabetical series.

Step 3:

21K20	21H11	8H11
17H12		24K21
2G7	8F22	26D24

Answers:

1) Option b

2) Option e

3) Option c

4) Option b

5) Option e

SOLUTIONS (6-10):

F5R	H6U	K8N
S6D		H7R
V3D	N7F	P9O

Replace the letters with their immediate preceding letter in the alphabetical series and decrease the number by 1.

Step 1:

E4Q	G5T	J7M
R5C		G6Q
U2C	M6E	O8N

For step 2:

(i) If element contains even number then Add 2 in the number and exchange the position of the letters after replacing each by their immediate followed letter in the alphabetical series

(ii) If element contains odd number then subtract 2 from the number and exchange the place of letters.

Step-2:

R6F	T3G	M5J
C3R		R8H
D4V	F8N	O10P

For step 3: First we take alphabet for middle number, then immediate following alphabet for 1st and last alphabet.

Step 3:

FSG	CUH	ENK
CDS		HSI
DEU	HGO	JPQ

Answers:

6) Option e

7) Option b

8) Option d

9) Option c

10) Option d

Solution (11-15): (fully modified)

Input:

F5R	K7G	H7T
L9V		K8H

D5S	V6D	L3E

Step 1:

Interchange the opposite boxes to get step 1 as mentioned in the above figure.

L3E	V6D	D5S
K8H		L9V
H7T	K7G	F5R

Step 2:

For Step-2 (i) Associate each alphabet with a number. This number is the alphabet's position in list of alphabets e.g. A – 1, B – 2 etc.

(ii) Find the sum in each cell by adding numbers associated with each alphabet and the number present in cell.

(iii) If the sum is a multiple of 2, then in the cell, increase the first alphabet by 1, decrease the second alphabet by 1 and decrease the number by 1.

(iv) If the sum is a multiple of 3, then in the cell, increase both the alphabets by 1 and increase the number by 1.

(v) If number is both the multiple of 2 and 3 or is neither a multiple of 2 nor 3, then in the cell, exchange the position of first and second alphabet and don't make any change in number.

M2D	W5C	E4R
L9I		V9L
T7H	G7K	R5F

For Step 3: For all the letters, there value in the alphabetical series is written in reverse order i.e. Z will be denoted by 1, Y will be denoted by 2 and all the numbers are replaced by their equivalent letter in the alphabetical series (starting from A).

Step 3:

14B23	4E24	22D9
15I18		5I15

7G19	20G16	9E21

Answers:

11) Option d

12) Option c

13) Option e

14) Option c

15) Option c

SOLUTIONS 16-20:

GD5	GH7	MN8
ER4		LK9
AS2	IU7	PO4

Interchange the opposite boxes to get step 1 as mentioned in the above figure.

PO4	IU7	AS2
LK9		ER4
MN8	GH7	GD5

For Step-2 (i) Associate each alphabet with a number. This number is the alphabet's position in list of alphabets e.g. A – 1, B – 2 etc.

(ii) Find the sum in each cell by adding numbers associated with each alphabet and the number present in cell.

(iii)If the sum is an even number, then in the cell, replace the first alphabet by its succeeding letter, do not change second alphabet and increase the number by 2.

(iv) If the sum is an odd number, then in the cell, replace both the alphabets by its succeeding letter and decrease the number by 2.

QP2	JV5	BS4
MK11		FS2
NO6	HH9	HD7

For Step-3: It is coded in some special pattern. (Fully added)

For Step-3: If cell contains any vowel then do not change the vowel; replace the other letter with its immediately preceding letter. For number take that numbered positioned alphabet in alphabet series.

If cell does not contain any vowel then replace the both letters by its immediately preceding letter. For number take that numbered positioned alphabet in alphabet series.

POB	IUE	ARD
LJK		ERB
MOF	GGI	GCG

Answers:

16) Option d

17) Option e

18) Option b

19) Option d

20) Option b

SOLUTION 21-25:

V6F	U3Q	L8I
L9H		B7T
L8Y	W4E	C5R

Replace the letters with their immediate previous letter in the alphabetical series and increase the number by 3.

Step 1:

U9E	T6P	K11H
K12G		A10S
K11X	V7D	B8Q

For step 2:

(i) If element contains prime number then subtract 1 from the number and replace alphabet each by their immediate preceding letter in the alphabetical series.

(ii) If element contains non-prime number then add 2 in the number and replace each letters by their immediate followed letter in the alphabetical series.

Step-2:

V11F	U8Q	J10G
L14H		B12T
J10W	U6C	C10R

For step 3: Exchange the position of first and third letter and replace that letter by taking reverse alphabet as per the alphabet series i.e. A is denoted as Z, B is denoted as Y and so on.

For center number consider as a position number in alphabet series, replace it with alphabet which is two places away from it in alphabet series.

Step 3:

UME	JJF	TLQ
SPO		GNY
DLQ	XHF	ILX

Answers:

21) Option c

22) Option e

23) Option d

24) Option b

25) Option c

SOLUTIONS 26-30:

F8H	R4E	B8X
K4S		L9A
R7G	K6F	Z4S

Interchange the opposite boxes to get step 1 as mentioned in the above figure.

Z4S	K6F	R7G
L9A		K4S
B8X	R4E	F8H

For Step-2 (i) Associate each alphabet with a number. This number is the alphabet's position in list of alphabets e.g. A – 1, B – 2 etc.

(ii) Find the sum of associate number of alphabet in each cell.

(iii) If the sum is an even number , then in the cell, increase the first alphabet by 1, decrease second alphabet by 1 and increase the number by 1.

(iv) If the sum is an odd number, then in the cell, decrease both the alphabets by 1 and decrease the number by 2.

Y2R	J4E	Q5F
K7Z		L5R
C9W	Q2D	G9G

For Step-3: The middle number is subtracted from the sum of the position number of letters in alphabet series.

41	11	18
30		25
17	19	5

Answers:

26) Option c

27) Option e

28) Option e

29) Option c

30) Option b

Solutions:

Directions 31-35:

S17	K85	L31
S29		T47
D88	V56	G76

Exchange the element of row one to row 3.Don’t exchange Row 2.

Step 1:

D88	V56	G76
S29		T47
S17	K85	L31

For step 2:

(i) If element contains two digit prime number then subtract 4 from the number and replace letter by their immediate preceding letter in the alphabetical series

(ii) If element contains non-prime odd number then add 4 in the number and replace letter by their immediate followed letter in the alphabetical series.

(iii) If element contains non-prime even number then divide it by 2 and replace letter by their immediate followed letter in the alphabetical series.

Step-2:

E44	W28	H38
R25		S43
R13	L89	K27

For step 3: replace letter with its reverse letter in alphabet series.

For number, add letter's numerical position in alphabet series to number.

Step 3:

V49	D51	S46
I43		H62
I31	O101	P38

Answers:

31) Option d

32) Option e

33) Option c

34) Option d

35) Option d

SOLUTION 36-40:

G6D	M3C	H2A
X4U		T7Y
D5S	L8H	M3X

Interchange the column 1 with column 3 to get step 1.Do not change column 2.

H2A	M3C	G6D
T7Y		X4U
M3X	L8H	D5S

For Step-2 (i) Associate each alphabet with a number. This number is the alphabet's position in list of alphabets e.g. A – 1, B – 2 etc.

(ii) Find the difference between sum of the alphabet position in alphabet series and center number.

(iii) Then interchange the positions of cells to get step 2.

Step 2:

7	13	5
38		41
34	12	18

18	12	34
41		38
5	13	7

For Step-3: Do sum of digits in number, take that position alphabet in alphabet series and write a square of that sum.

I81	C9	G49
E25		K121

E25	D16	G49

Answers:

36) Option d

37) Option b

38) Option b

39) Option d

According to coding for step 3,what will be the code for 345

3+4+5=12 i.e. L144

40) Option b

SOLUTION 41-45: Study the following diagram and convert it into other diagrams by implementing the instructions which is given in each step to get next step.

G125	L38	F8
A1000		K36
I512	C18	R256

Interchange the opposite boxes to get step 1 as mentioned in the above figure.

For Step-2

R256	C18	I512
K36		A1000
F8	L38	G125

(ii) If the cell contains a perfect square number then take square root of that number and use that numbered letter in alphabet series. Decrease the first alphabet by 1.

ii)If the cell contains a perfect cube number then take cube root of that number and use that numbered letter in alphabet series. Increase the first alphabet by 1.

ii)If none of the above condition is followed then divide that number by 2 and use that numbered letter in alphabet series. Don’t change the first letter.

QP	CI	JH

JF		BJ
GB	LS	HE

For Step-3: Take reverse alphabet series number of the letter then do sum of them.

21	42	36
38		42
45	23	41

Answers:

41) Option e

42) Option c

43) Option a

44) Option a

45) Option c

SOLUTION 46-50:

M3D	L4K	P9E
C8X		G7H
K7G	V6C	R5S

Replace the letters with their immediate preceding letter in the alphabetical series and decrease the number by 1.

L2C	K3J	O8D
B7W		F6G
J6F	U5B	Q4R

For Step-2 (i) Associate each alphabet with a number. This number is the alphabet's position in list of alphabets e.g. A – 1, B – 2 etc.

(ii)Interchange the column 1 with column 3 to get step 1.Do not change column 2.

O8D	K3J	L2C
F6G		B7W

Q4R	U5B	J6F

Step 2:

For Step-3: do

27	24	17
19		32
39	28	22

sum of digits in number and add 1 in it.Take that numbered letter of alphabet in alphabet series.

J	G	I
K		F
M	K	E

Answers:

46) Option e

47) Option b

48) Option d

49) Option c

According to coding for step 3,what will be the code for 289

2+8+9+1=20 i.e. T

50) Option a

Critical Reasoning

1.

Statement I: The university authority has instructed all the colleges under its jurisdiction to ban use of all phones inside the college premises. Mobile phones are really necessary and useful. But the college authorities have banned them in the colleges since they are a distraction to the student's study. Most of the students use their mobile even during class hours to forward SMS or keep chatting in their phones.

Statement II: Majority of the teachers of the colleges signed a joint petition to the university complaining the disturbances caused by cell phone ring-tones inside the