REASONING
MISCELLANEOUS

Miscellaneous

Practice Exercise Based on new Pattern

Directions (1-5): Study the following alphanumeric series carefully and answer the questions given below:

7 A 6 P & R $ 4 Y Q % T @ 3 9 S I O 9 9 J L E U * K # 3

STEP I- The letters which are immediately preceded and immediately followed by a symbol are arranged in the end of the series in the alphabetical order. (They are arranged just after 3)

STEP II- The numbers which are immediately preceded by the letter and immediately followed by the Symbol are arranged between 9 and S in the increasing order.

STEP III- The numbers which are immediately followed by letter are interchanged its position with respect to the element just after it. (STEP II is applied after STEP I and STEP III is applied after STEP II)

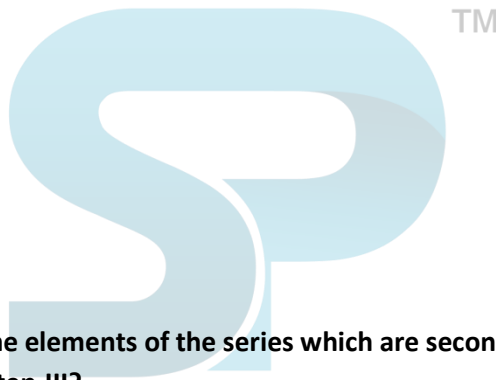**1. How many letters are arranged at the end of the series in the step-1?**

(a) One

(b) Three

(c) Four

(d) Five

(e) More than five

2. Which among the following are the elements of the series which are second position from the left end and fifth position from the right end in step-III?

(a) 63

(b) 7#

(c) P#

(d) AK

(e) 6#

3. How many symbols are immediately followed by numbers in step-III?

(a) One

(b) Three

(c) Four

(d) Five

(e) Two

4. Which of the following element is third to the left of the seventh element from the right in step III?

(a) E

(b) J

(c) 9

(d) L

(e) None of these

5. Which of the following is the third letter from the right end in step II?

(a) R

(b) S

(c) T

(d) K

(e) None of these

Direction (6-10): In every question two rows are given and to find out the resultant of a particular row you need to follow the following steps: -

Step 1: If an odd number is followed by a perfect square then the resultant will be the subtraction of the square number from the odd number.

Step 2: If an even number is followed by an odd (prime) number then the resultant will be the addition of both the numbers.

Step 3: If an even number is followed by an even number then the resultant will be the difference of both the numbers.

Step 4: If an odd number is followed by another odd number then the resultant will be the addition of both the numbers.

Step 5: If an even number is followed by an odd (non-prime) number except (1) then the resultant will be the subtraction of the odd number from the even number.

Step 6: If an odd number is followed by an even number then the resultant comes by multiplying the numbers.

6. 8   7   6

    11   9   5

Find the difference of two rows

(a) 35

(b) 83

(c) 31

(d) 63

(e) None of these

7. Find the resultant of second row if M is the resultant of first row.

3   7   9

M   12   8

(a) 11

(b) 20

(c) 4

(d) 3

(e) None of these

8. If the sum of the resultants of two rows is 275. Then find the value of K?
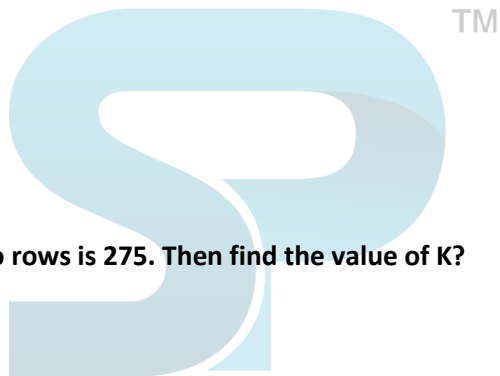
15   20   42

 9   K   5

(a) 4

(b) 9

(c) 3

(d) 5

(e) None of these

9. Find the multiple of the resultant of first and second row.

5   4   15

21   16   4

(a) 36

(b) 16

(c) 10

(d) 13

(e) None of these

10. If Q is the resultant of second row, then find the difference of the resultant of two rows.

9   8   Q

12   9   4

(a) 68

(b) 72

(c) 73

(d) 71

(e) None of these

Direction (11-15): In every question two rows are given and to find out the resultant of a particular row you need to follow the following steps: -

Note: (All the resultant value consider as a positive integer)

Step 1: If an odd number is followed by an even number then the resultant will be the subtraction of both the numbers.

Step 2: If an even number is followed by a perfect cube then the resultant will be the sum of the numbers.

Step 3: If an odd number is followed by another odd number then the resultant will be the subtraction of both the numbers.

Step 4: If an even number is followed by an odd (prime) number then the resultant will be the subtraction of both the number.

Step 5: If above four conditions are not applied than simply add both the number.

11. Find the resultant sum of two rows?

8   27   2

15   7   3

(a) 18

(b) 25

12. Find the resultant of second row if D is the resultant of first row.

9   7   2

13   D   3

(a) 5

(b) 7

(c) 9

(d) 3

(e) 6

13. If the resultants value of second rows is 7, then find the value of L?
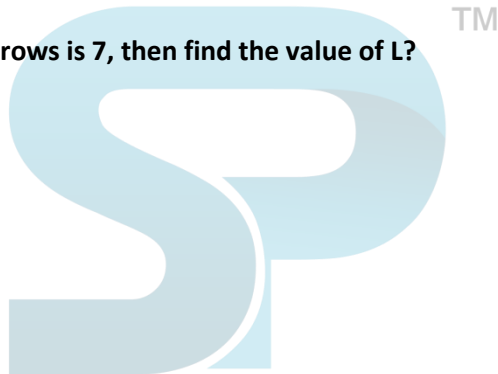
24   27   12

12   3   L

(a) 12

(b) 16

(c) 15

(d) 9

(e) None of the above

14. Find the multiplication of the resultant value of first and second row.

4   8   8

27   6   7

(a) 441

(b) 156

(c) 625

(d) 400

(e) 280

15. If Z is the resultant of second row, then find the sum of the resultant of two rows.

Z   15   36

6   512   100

(a) 633

(b) 518

(c) 618

(d) 597

(e) 1215

Directions (16-20): Study the following alphanumeric series carefully and answer the questions given below:

12AIFR   42 WBOL   63EOCN

15TVMR   75GYTR

16. How many meaningful words can be formed from the letters of the words which are attached with the numbers in which At least one digit is even digit in the given alphanumeric series?

(a) one

(b) Two

(c) three

(d) four

(e) More than four

17. The words are arranged according to the descending order of the numbers which are attached to them from left to right, then how many alphabets are between the letters of second letter from the left end and seventh letter from the right end?

(a) One

(b) Two

(c) three

(d) four

(e) More than five

18. The letters which are attached with the numbers in which at least one is odd digit are arranged according to the ascending orders of their numbers from left to right and then all letters of the words together are arranged in the alphabetical order, then which of the following is the 9th letter from the right end?

(a) M

(b) O

(c) N

(d) R

(e) None of these

19. How many meaningful words can be formed from the letters of the words which are attached with the numbers in which both the digits are even digit in the given alphanumeric series?

(a) Three

(b) Two

(c) Four

(d) One

(e) None of these

20. How many meaningful words can be formed from the letters of the words which are attached with the numbers in which both the digit are odd digit in the given alphanumeric series??

(a) Three

(b) Two

(c) Four

(d) None

(e) None of these

Direction (21-25): In every question two rows are given and to find out the resultant of a particular row you need to follow the following steps: -

Condition I: If an odd number is followed by a perfect square then the resultant will be the multiplication of both the numbers.

Condition II: If an even number is followed by an odd (prime) number then the resultant will be the division of both the numbers.

Condition III: If an even number is followed by an even number then the resultant will be the difference of both the numbers.

Condition IV: If an odd number is followed by another odd number then he resultant will be the addition of both the numbers.

Condition V: If an even number is followed by an odd (non-prime) then the resultant will be the subtraction of both the numbers.

Note: Resultant value is always considered as positive integer. And Greater number is dividing by the smaller number.

21. 12   8   8

     7   16   5

Find the sum of two rows?

(a) 135

(b) 133.4

(c) 134.5

(d) 134.4

(e) None of these

22. Find the value of the multiplication of both row's resultant value than addition of 1.

12   27   5

1   3   23

(a) 116

(b) 120

(c) 114

(d) 113

(e) None of these

23. If the multiplication of the resultants of two rows is 84. Then find the value of X?

12   9   4

4   X   9

(a) 4

(b) 9

(c) 3

(d) 5

(e) None of these

24. Find the division of the sum of the resultant of first and second row.

30	5	2
17	11	12

(a) 4

(b) 2

(c) 8

(d) 6

(e) None of these

25. If X is the resultant of the first and second digit of the second row, then find the sum of the resultant of two rows.

24	9	X
7	9	3

(a) 142

(b) 144

(c) 154

(d) 152

(e) None of these

Direction (26-30): There are two rows given and to find out the resultant of a particular row we need to follow the following steps: -

Step 1: If an even number is followed by an odd number then the resultant will be the addition of both the numbers.

Step 2: If an odd number is followed by a perfect square then the resultant will be the difference of that square number and the odd number.

Step 3: If an odd number is followed by another odd number (but not a perfect square) then the resultant will be the addition of both the numbers.

Step 4: If an odd number is followed by an even number (but not a perfect square) then the resultant comes by multiplying the numbers.

Step 5: If an even number is followed by another even number then the resultant will be the division of first number by the second number.

26. Find the sum of two rows

8　　4　　1

11　　6　　7

(a) 78

(b) 52

(c) 64

(d) 76

(e) None of the above

27. If the sum of the resultants of two rows is 46. Then find the value of X.

9　　2　　7

24　　4　　X

(a) 16

(b) 27

(c) 8

(d) 15

(e) None of the above

28. Find the difference between the resultant of first and second row.

13　　3　　7

4　　11　　12

(a) 117

(b) 126

(c) 157

(d) 96

(e) None of the above

29. Find the multiplication of the resultant of first and second row.

21   19   8

16   13   9

(a) 110

(b) 85

(c) 100

(d) 120

(e) None of the above

30. If the multiplication of the resultant of first and second row is 39, then find the value of 'X'.

7   5   4

6   2   X

(a) 11

(b) 15

(c) 16

(d) 12

(e) None of the above

Solutions

Solution (1-5):

Input: 7 A 6 P & R $ 4 Y Q % T @ 3 9 S I O 9 9 J L E U * K # 3

Step 1:

7 A 6 P & $ 4 Y Q % @ 3 9 S I O 9 9 J L E U * # 3 K T R

Step 2:

7 A 6 P & $ 4 Y Q % @ 3 9 S I O 9 9 J L E U * # 3 K T R

Step 3:

A 7 P 6 & $ Y 4 Q % @ 3 S 9 I O 9 J 9 L E U * # K 3 T R

1. (b);

2. (b);

3. (a);

4. (c);

5. (d);

Solutions (6-10):

6. (b);

In row-1

Even number is followed by an odd prime number so=8+7= 15

15   6

Odd number is followed by an even number so=15*6= 90

In row-2

Odd number is followed by a perfect square so=11-9= 2

2   5

Even number is followed by an odd prime number so=2+5= 7

So the difference of both row = 90 - 7 = 83

7. (c);

 In row-1

Odd number is followed by another odd number so=3+7= 10

10   9

Even number is followed by an odd (non-prime) number so=10- 9= 1

From row-1 M value is 1 so,

In row-2

Odd number is followed by an even number so=1*12= 12

12   8

Even number is followed by an even number so=12-8= 4

So the resultant of the second row = 4

8. (c);

In row-1

Odd number is followed by an even number so=15*20= 300

300   42

Even number is followed by an even number so=300-42= 258

In row-2

When put K=3 then,

3   5

Odd number is followed by another odd number so=9+3= 12

12   5

Even number is followed by an odd (prime) number so=12+5= 17

So the Sum of the resultant of the both rows = 275

So this condition can satisfy only when K=3.

9. (b);

In row-1

Odd number is followed by a perfect square so=5-4= 1

1   15

Odd number is followed by another odd number so=1+15= 16

In row-2

Odd number is followed by a perfect square so=21-16= 5

5   4

Odd number is followed by a perfect square so=5-4 = 1

So the multiple of the resultant of the both rows = 16*1= 16

10. (b); In row-2

Even number is followed by an odd (non-prime) number so=12-9= 3

3   4

Odd number is followed by a perfect square so=3-4= (-1)

So the value of Q= (-1)

In row-1

Odd number is followed by an even number so=9*8= 72

72   (-1)

Even number is followed by an odd (prime) number so=72+ (-1) = 71

So difference of the resultant of two rows = 71-(-1) = 72

Solution (11-15):

11. (d);

Row-I: Even number is followed by a perfect cube= 8+27=35

Now 35   2 odd number is followed by an even number=35-2=33

Row-II: Odd number is followed by another odd=15-7=8

8   3 even number is followed by an odd (prime) number=8-3=5

Sum of both the row= 33+5=38

12. (e);

Row-I: odd number is followed by another odd number= 9-7=2

2   2 above four conditions are not applied=2+2=4

Row-II: odd number is followed by another even number=13-4(D)=9

9   3 odd number is followed by another odd number=9-3=6

13. (b);

Row-I: even number is followed by an odd (prime) number=3

3   12 odd number is followed by an even number= 12-3=9

Row-II: even number is followed by an odd (prime) number=12-3=9

9 L=16 odd number is followed by an even number 16- 9=7

14. (e);

Row-I: even number is followed by a perfect cube 4+8=12

12   8 even number is followed by a perfect cube 12+8=20

Row-II: odd number is followed by an even number 27-6=21

21   7 odd number is followed by another odd number=21-7=14

Multiplication= 20*14=280

15. (e);

Row-II: even number is followed by a perfect cube= 512+6=518

518   100 above four conditions are not applied=518+100=618

Row-I: Z=618

Above four conditions are not applied = 618 + 15 = 633

Odd number is followed by an even number=633-36=597

Resultant of two row= 618+597=1215

Solutions (16-20):

16. (b); There are Five meaningful words- Fair, Bowl, Blow, Cone, Once

17. (b);

18. (c);

19. (b); There are two words can be made 'Bowl and Blow'.

20. (d); There are two such words 'TVMR and GYTR'.

But no meaningful words can be formed.

Solutions (21-25):

21. (e);

Row-I: Even number is followed by an even number= 12 – 8 = 4

Even number is followed by an even number = 8 – 4 = 4

Row-II: odd number is followed by a perfect square= 7*16=112

Even number is followed by an odd (prime) number=112/5=22.4

Sum of both the row= 26.4

22. (a); Row-I: even number is followed by an odd (non-prime) =27-12=15

Odd number is followed by another odd number= 15+5=20

Row-II: odd number is followed by another odd number= 1+3=4

Even number is followed by an odd (prime) number=23/4=5.75

Multiplication of both row's resultant value than addition of 1=5.75*20=115+1=116

23. (e);

Row-I: even number is followed by an odd (non-prime) = 12-9=3

Odd number is followed by a perfect square = 3*4=12

Row-II: Even number is followed by an even number = 6-4=2

Even number is followed by an odd (non-prime) = 9-2=7

Multiplication of both the row's resultant value = 12*7 = 84

24. (a);

Row-I: even number is followed by an odd (prime) number =30/5=6

Even number is followed by an even number = 6-2=4

Row-II: odd number is followed by another odd number =17+11= 28

Even number is followed by an even number = 28-12 = 16

Division= 16/4 = 4

25. (b);
Row-II: odd number is followed by a perfect square = 7*9 = 63

Odd number is followed by another odd number = 63+3=66

Row-I: Even number is followed by an odd (non-prime) = 24-9=15

Odd number is followed by another odd number = 15+63 = 78

Sum of the resultant of two rows = 78+66= 144

Solutions (26-30):

26. (d);

Row-I: even number is followed by an even number = 8/4=2

Even number is followed by an odd number = 2+1=3

Row-II: odd number is followed by even number = 11*6= 66

Even number is followed by an odd number = 66+7 = 73

Sum of two rows= 73+3= 76

27. (d);

Row-I: odd number is followed by an even number = 9*2= 18

Even number is followed by an odd number = 18+7=25

Row-II: even number is followed by another even number =24/4= 6

Difference of total and first row is = 46-25= 21

The resultant of second row is 21

Hence, if X= 15 then,

Even number followed by odd number= 6+15= 21.

28. (c);

Row-I: odd number is followed by an odd (not perfect square) number = 13+3= 16

Even number is followed by an odd number = 16+7= 23

Row-II: even number is followed by odd number = 4+11= 15

Odd number is followed by an even number = 15*12 = 180

The difference of the resultants= 180-23= 157

29. (c); Row-I:

Odd number is followed by an odd number = 21+19 = 40

Even number is followed by an even number = 40/8 = 5

Row-II: even number is followed by another odd number =16+13= 29

Odd number is followed by an odd (perfect square) number =29-9 = 20

Multiplication= 20*5 = 100

30. (c); Row-I:

Odd number is followed by an odd number = 7+5= 12

Even number is followed by an even number = 12/4=3

Resultant of both rows is 39 i.e. 3*13= 39 (resultant of second row is 13).

Row-II: even number is followed by another even number =6/2= 3

Odd number is followed by an even (perfect square) number =16-3 = 13

So, X= 16