Direction (1-5): Study the following information carefully and answer the below questions

562 785 412 986 234

1. If the digits are written in descending order within the number, then which of the following number will become the second-highest number?
   A. 234
   B. 986
   C. 412
   D. 785
   E. 562

2. If the first digit of the lowest number is multiplied with the third digit of the second-lowest number, then which of the following will be the resultant?
   A. 2
   B. 6
   C. 8
   D. 4
   E. None of the above

3. If the position of first and last digits are interchanged within the number, then how many numbers will be divisible by three?
   A. 1
   B. 2
   C. 3
   D. 4
   E. None

4. If in each number, the first digit is added to the last digit, then the results should be subtracted from the second digit, then which of the following is the highest number?
   A. 986
   B. 234
   C. 412
   D. 562
   E. 785

5. If all the numbers are written continuously from the left end then how many digits are between the fifth digit from the right end and third digit from the left end?
Direction (6-9): Study the following information carefully and answer the below questions.

Seven persons- P to V are leaving their vehicle in work-shop for service one after other but not necessarily in the same order. T is the second person either from first or last. Two persons are leaving between T and V. S is leaving the vehicle adjacent to neither T nor V. The number of vehicles leaving before S is same as after R. P leaves immediately before U who leaves before Q.

6. Who among the following person is leaving the vehicle immediately before P?
A. The one who leaves two persons before Q
B. The one who leaves immediately after R
C. R
D. U
E. None of the above

7. Which of the following statement is/are true?
A. P leaves three persons before Q
B. R leaves immediately after T
C. Only one person leaves between P and T
D. No one leaves between S and P
E. None of these

8. If all the persons are arranged in alphabetical order from the person who is leaving the vehicle at first, then how many persons are unchanged their position?
A. No one
B. 1
C. 2
D. 3
E. More than Three

9. How many persons are leaving between T and Q?
A. Five
B. Four
C. Three
D. Two
E. None of these

Directions (10-12): Read both the conclusions and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.

Give Answer:

a) If Only conclusion I follow.
b) If Only conclusion II follows.
c) If either conclusion I or II follows.
d) If Neither conclusion I nor II follows.
e) If both conclusions I and II follow.

10) Statement

Few Kids are Nice
Only a few Nice are Lazy
No Kids are Busy

Conclusion
I. All Nice are Busy
II. Some kids are lazy is a possibility

11) Statement
Only a few Garlic is Carrot
No carrot is Turnip
Few Turnip is Fennel

Conclusion
I. All Fennel is Carrot is not a possibility
II. Few Garlic are Turnip is a possibility

12) Statement
Only a few Broccoliis Corn
All corn is celery
No Broccoli is Chilli

Conclusion
I. Some Celery is Broccoli is a possibility
II. All Corn is chilli is a possibility

Directions (13-17): Study the following information carefully and answer the below questions

Certain numbers of persons are sitting in a linear row facing north. Only three persons sit between V and T who sits left of V. O is an immediate neighbour of N and sits third from one of the ends. X sits third to the left of S. Five persons sit between V and P who sits at the extreme end. The number of persons sits to the left of T is one more than the number of persons sits to the right of N. Six persons sit between O and X. Seven persons are sitting between S and V.

13) Who among the following person sits immediate left of O?
   a) One who sits second to the left of T
   b) S
   c) One who exactly sits between V and X
   d) X
   e) One who sits third to the right of S

14) How many seats are placed in the linear Row?
   a) 20
   b) 18
   c) 21
   d) 23
   e) None of these

15) Who among the following person sits fourth to the right of T?
   a) One who exactly sits between P and X
b) X

c) One who sits fifth to the left of X

d) O

e) None of these

16. What is the position of S respect to N?
a) Fourth to the right
b) Fifth to the left
c) Third to the left
d) Second to the left
e) None of these

17. How many seats are placed between S and T?
a) 10
b) 11
c) 9
d) 12
e) None of these

Directions (18-21): Read the following information carefully and answer the questions given below.

A %2 Z 0 X B 8 H I # F 5 M + L V 4 O @ Q S 7 3 *U E & 1 P

18. Which of the following element is exactly between “+” and “Q”?
A. V
B. @
C. O

19. How many such vowels are there each of which is immediately followed by symbols?
A. None
B. One
C. Two
D. Three
E. More than three

20. Four of the following five are alike in a certain way and hence form a group. Which one of the following that does not belong to the group?
A. A20
B. H#5
C. 4@S
D. 7*E
E. ZX8

21. Which of the following element is fourth to the left of the fourteenth element from the right end?
A. F
B. +
C. 5
D. M
E. V

22. How many pairs of letters are there in the word “MONITOR” each of which has as many letters between them in the word as in the English alphabetical series (both forward and backward direction)?
A. 1
B. 2
C. 3
D. 4
E. None of these
Direction (23-27): Study the following questions carefully and answer the following questions.

Seven persons – P, Q, R, S, T, U, and V are sitting in a row facing north but not necessarily in the same order. Neither R nor S sits adjacent to T. P sits third from the left end. A person sitting adjacent to P sits four places away from U. Neither P nor U sits adjacent to R, who sits three places away from S. Q sits two places left of T.

23) The number of persons sitting to the left of V is one more than the number of persons to the right of _____?
   a) P  
   b) T  
   c) U  
   d) S  
   e) None of these.

24) What is the position of S with respect to Q?
   a) Second to the right 
   b) Immediate left 
   c) Third to the left 
   d) Immediate right 
   e) None of these.

25) How many persons are sitting between V and S?
   a) As many as between P and U. 
   b) Three 
   c) As many as to the right of U. 
   d) Two 
   e) Either C or D

26) Find the odd one out?
   a) RP 
   b) SU 
   c) SV 
   d) QT 
   e) PU

27) Which of the following statement is/are not true?
   I. R sits at the left end of the row. 
   II. Three persons are sitting between S and T. 
   III. Two persons are sitting between person immediate right of U and Q. 
   a) Both II and III 
   b) Only III 
   c) Only I 
   d) Both I and II 
   e) None of these.
Direction (28-32): Study the following information carefully and answer the below questions.

Eight people are L, M, N, O, P, Q, R, and S celebrate their birthday on different dates of the different month. The birthday of each person is on either 18th or 25th of any month among August, September, October, and November but not necessarily in the same order. No two persons celebrate their birthday on the same date of the same month.

N celebrates his birthday on an even numbered date of the month which has an even number of days. The number of persons celebrates birthday before S is one more than the number of persons celebrates birthday after M, who celebrates birthday on one of the months after S. O celebrates birthday immediately before R. Three persons celebrate the birthday between P and M, both of them not celebrate their birthday on November. L celebrates his birthday on 18th August.

28. Who among the following person celebrates birthday on August 25th?
A. L
B. The one who celebrates immediately before N.
C. N
D. S
E. None of the above

29. Four of the following are alike in a certain way and hence form a group. Who among the following one does not belong to the group?
A. P
B. S
C. The one who celebrates on October 25th
D. R
E. The one who celebrates on October 18th

30. Which of the following statement is/are true?
A. L celebrates his birthday on September
B. Two persons celebrate the birthday between N and M
C. R celebrates birthday on the same date of N
D. S celebrates birthday immediately after P
E. None of these

31. On which of the following date does M celebrates his birthday?
A. October 25th
B. October 18th
C. August 25th
D. September 18th
E. November 18th

32. As many persons celebrate birthday between P and Q is same as between __ and __?
A. N, L
B. S, O
C. O, M
D. None of these
E. S, Q

Directions (33-36): In each of the following questions, relationship between different elements is shown in the statements followed by conclusions. Find the conclusion which is definitely true.

Give answer:
a) If only conclusion I follows.
b) If only conclusion II follows.
c) If either conclusion I or II follows.
d) If neither conclusion I nor II follows.
e) If both conclusions I and II follows.

33. Statements:
C ≥ D ≤ F < E;
M ≥ F < L;
D > N ≥ O

Conclusions:
34. **Statements:**
   B ≥ A > C = O; A < L ≥ M; C ≤ N ≤ Z
   **Conclusions:**
   I). B ≤ M
   II). O ≤ Z

35. **Statements:**
   Z < O > P ≥ K < N; K ≤ L < M ≤ C; B ≥ Q < O
   **Conclusions:**
   I). B > P
   II). C ≥ P

36. **Statements:**
   K > O ≥ L ≥ A ≤ C; N ≥ O ≤ W ≤ V; X > Y < A
   **Conclusions:**
   I). V > A
   II). V = A

Directions (37-40): Study the following information carefully and answer the questions given below it.

There are eight persons namely M, N, P, Q, R, S, T and U sitting in a circular table but not necessarily in same order. All of them face towards the center. They are sitting in such a way that each person maintains equal distance from immediate neighbors. There are two persons sitting between M and P. N sits third to the left of U. Only one person sits between N and R. There are two persons sit between S and Q. U is not an immediate neighbor of R. T sits immediate left of R. M is immediate neighbor of S. P is not an immediate neighbor of Q. Neither N nor T sits opposite of M.

37. How many persons are sitting between S and R when counted from left of S?
   A. 2
   B. 3
   C. 5
   D. 6
   E. None of these

38. Who sits second to the left of U?
   A. M
   B. T
   C. N
   D. S
   E. None of these

39. Who sits opposite of P?
   A. R
40. Who sits second to the right of Q?

A. T  
B. M  
C. N  
D. P  
E. None of these

Answers:

1) Answer: D

562 785 412 986 234  
652 875 421 986 432

2) Answer: D

562 785 412 986 234

2*2=4

3) Answer: A

562 785 412 986 234

265 587 214 689 432

4) Answer: A

562 785 412 986 234

1 4 5 7 3

5) Answer: E

5 6 2 7 8 5 4 1 2 9 8 6 2 3 4

T is the second person either from first or last.

Two persons are leaving between T and V.

From the above condition, there are two possibilities.

<table>
<thead>
<tr>
<th>Case1</th>
<th>Case2</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>R</td>
</tr>
<tr>
<td>2</td>
<td>T</td>
</tr>
<tr>
<td>3</td>
<td>P</td>
</tr>
<tr>
<td>4</td>
<td>U</td>
</tr>
<tr>
<td>5</td>
<td>V</td>
</tr>
<tr>
<td>6</td>
<td>Q</td>
</tr>
<tr>
<td>7</td>
<td>S</td>
</tr>
</tbody>
</table>

S is leaving the vehicle adjacent to neither T nor V.

The number of vehicles leaving before S is same as after R.
P leaves immediately before U who leaves before Q. From the above condition, case2 gets eliminated, case1 shows the final arrangement.

<table>
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<td></td>
</tr>
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<td>V</td>
</tr>
<tr>
<td>6</td>
<td>T</td>
</tr>
<tr>
<td>7</td>
<td>S</td>
</tr>
<tr>
<td></td>
<td>R</td>
</tr>
</tbody>
</table>

Directions (13-17):

Five persons sit between V and P who sits at the extreme end.

Only three persons sit between V and T who sits left of V.

From the above condition, there are two possibilities.
Seven persons are sitting between S and V.

O is an immediate neighbour of N and sits third from one of the ends.

X sits third to the left of S. Six persons sit between O and X.

The number of persons sits to the left of T is one more than the number of persons sits to the right of N.

From the above condition case 2 is canceled, case 1 shows the final arrangement.

13) Answer: E
14) Answer: C
15) Answer: C
16) Answer: B
17) Answer: B
18) Answer: D
19) Answer: E
20) Answer: D
21) Answer: C
22) Answer: C

Directions (23-27):

We have:

- P sits third from the left end.
- A person sitting adjacent to P sits four places away from U.
  That means, U sits second from the right end.
- Neither P nor U sits adjacent to R, who sits three places away from S.
  That means, S sits immediate right of P.

Based on the above given information we have:

\[
R \quad P \quad S \quad U
\]

Again, we have:

- Neither R nor S sits adjacent to T.
- Q sits two places left of T.
  That means, T sits at the right end and V sits immediate right of R.

Based on the above given information we have the final arrangement as follows:

\[
R \quad V \quad P \quad S \quad Q \quad U \quad T
\]

23. Answer: B

24. Answer: B

25. Answer: C

26. Answer: E

27. Answer: A

Direction (28-32):

N celebrates his birthday on even numbered date of the month which has even number of days.
L celebrates his birthday on 18th August.
From the above condition, there are two possibilities.

<table>
<thead>
<tr>
<th>Month/Date</th>
<th>18</th>
<th>25</th>
</tr>
</thead>
<tbody>
<tr>
<td>August(31)</td>
<td>L</td>
<td>P</td>
</tr>
<tr>
<td>September(30)</td>
<td>N</td>
<td>S</td>
</tr>
<tr>
<td>October(31)</td>
<td>Q</td>
<td>M</td>
</tr>
<tr>
<td>November(30)</td>
<td>O</td>
<td>R</td>
</tr>
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</table>

N celebrates his birthday on even numbered date of the month which has even number of days.
L celebrates his birthday on 18th August.
From the above condition, there are two possibilities.

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<td></td>
</tr>
<tr>
<td>October(31)</td>
<td>P/M</td>
<td>P/M</td>
</tr>
<tr>
<td>November(30)</td>
<td></td>
<td>N</td>
</tr>
</tbody>
</table>

Three persons celebrate the birthday between P and M; both of them not celebrate their birthday in November.
The number of persons celebrates birthday before S is one more than the number of persons celebrates birthday after M. Who celebrates birthday on one of the months after S.

O celebrates birthday immediately before R. Case-2 gets eliminated since O celebrates his birthday immediately before R. The final arrangement is.

<table>
<thead>
<tr>
<th>Month/Date</th>
<th>Case-1</th>
<th>Case-2</th>
</tr>
</thead>
<tbody>
<tr>
<td>August(31)</td>
<td>L</td>
<td>P</td>
</tr>
<tr>
<td>September(30)</td>
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</tr>
<tr>
<td>October(31)</td>
<td>Q</td>
<td>M</td>
</tr>
<tr>
<td>November(30)</td>
<td>O</td>
<td>R</td>
</tr>
</tbody>
</table>

28) Answer: B
29) Answer: E
30) Answer: B
31) Answer: A
32) Answer: B
33) Answer: E
I. C > N (C ≥ D > N) --> True
II. M > O (M ≥ F ≥ D > N ≥ O) --> True
34) Answer: B
I. B ≤ M (B ≥ A < L ≥ M) --> False
II. O ≤ Z (O = C ≤ N ≤ Z) --> True
35) Answer: D
I. B > P (B ≥ Q < O > P) --> False
II. C ≥ P (P ≥ K ≤ L < M ≤ C) --> False
36) Answer: C
I. V > A (V ≥ W ≥ O ≥ L ≥ A) --> False
II. V = A (V ≥ W ≥ O ≥ L ≥ A) --> False

Directions (37-40):

There are two persons sitting between M and P. Here, we have following cases.

There are two persons sitting between S and Q. M is immediate neighbor of S. P is not an immediate neighbor of Q.
N sits third to the left of U. Only one person sits between N and R. U is not an immediate neighbor of R. Here, we have two more cases.

Neither N nor T sits opposite of M. Here, Case-1(a), Case-1(b) and Case-2(b) is eliminated.

Hence, Final solution is Case-2(a).

37) Answer: A
38) Answer: D
39) Answer: B
40) Answer: E