

BOOST UP PDFS | Reasoning Ability | Alpha Numeric Questions (Hard Level Part-1)

Recommend for SBI PO, SBI Clerk, IBPS RRB/PO/Clerk Exams

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Directions (1-5): Answer the following questions referring to the symbol – letter – number sequence given below:

M @ 9 • K Q 3 # 8 α U 2 C £ 1 E B G 6 W H 4 Z A 7 S
D 5 \$ Y

1. What would be the total number of ‘the symbols immediately preceding the letters’ and ‘the numbers immediately followed by the letters’ together in the above sequence if every fifth element disappears from the left end of the sequence, dropping ‘K’ first?

- a. Eight
- b. Five
- c. Seven
- d. Six
- e. None of these

2. How many letters and numbers are there in the first twenty elements in the sequence which are either immediately preceded or immediately followed by a symbol?

- a. Seven
- b. Eight
- c. Ten
- d. Six
- e. None of these

3. Which of the following indicates the total number of symbols, letters and numbers respectively in the new sequence if the first ten elements are written again in the end (ie, after Y)?

- a. 12, 17, 10
- b. 11, 16, 11
- c. 10, 16, 12
- d. 10, 17, 12
- e. None of these

4. If every sixth part of the sequence is written in the reverse order, what will be 4th to the left of the 7th to the right of 11th from the left?

- a. B
- b. 2
- c. K
- d. C
- e. None of these

5. What should come in place of the question mark (?) in the following sequence?

?, QU9, 8CK, 213

- a. M89
- b. •8M
- c. 98M
- d. 1α@

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e. None of these

Direction (6-10): Following questions are based on the five numbers given below. Study the questions carefully and answer it.

729 867 308 652 460

6. If in each number, 'one' is added to every even digits and 'two' is subtracted from every odd digits and put 'one' for 'zero', then what is the difference between the middle digit of second number from right end and the last digit of second number from the left end?

- a. 4
- b. 2
- c. 3
- d. 1
- e. None of these

7. If in each number, the digits are arranged in descending order, what will be the sum of the middle digits of each of the numbers?

- a. 26
- b. 25
- c. 33
- d. 31
- e. None of these

8. If numbers are arranged in an order of 1st largest, 1st lowest, 2nd largest and so on. Then what is the difference of the number which is 3rd from left end and extreme right end?

- a. 87

- b. 77
- c. 76
- d. 70
- e. None of these

9. If all the numbers are arranged in ascending order, what will be the product of 8th digit from left end and 7th digit from right end?

- a. 0
- b. 30
- c. 10
- d. 15
- e. 14

10. If the positions of the first and third digits of each of the number interchange, what is the sum of 1st digit of 2nd lowest number and 3rd digit of 4th largest number?

- a. 6
- b. 7
- c. 8
- d. 9
- e. 11

Directions (11-15): Study the following series and answer the questions referring to the word sequence given below:

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ROMS KSAM SBOS MTES ADIM

11. If words are arranged according to the reverse alphabetical series from right to left, then which word is second from the left end?

- a. SBOS
- b. KSAM
- c. ROMS
- d. ADIM
- e. None of these

12. If all the words are arranged according to alphabetical order and then each letter in each of the word is arranged according to alphabetic series then how many letters between the 2nd letter of word which is 2nd from left and 3rd letter of the word which is 2nd from right according to alphabetic series?

- a. Six
- b. Three
- c. Four
- d. Seven
- e. None of these

13. If each vowel of each word is changed to its next letter according the alphabetical series, then How many letters are there between 3rd letter of the word which is 2nd from left end and 3rd letter of the word which is 3rd from right end?

- a. 2
- b. 12
- c. 13
- d. 11

e. None of these

14. If 1st and 2nd letter of each word is changed to its next letter according the alphabetical series, then how many words are there which contains more than one vowel?

- a. Two
- b. None
- c. One
- d. Three
- e. None of these

15. If all the vowels are dropped within each word, then how many meaningful words will be formed?

- a. Two
- b. None
- c. One
- d. Three
- e. None of these

Directions (16-20): Following questions are based on the five three-digit numbers given below:

369 717 922 625 434

16. If all the numbers are arranged in descending order from left to right then which of the following will be the product of the first and last digits of the number which is second from right end?

- a. 16
- b. 30
- c. 27
- d. 49
- e. 18

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17. If the positions of the first and third digits of each of the number interchange, what will be the sum of first and second digits of the third lowest number thus formed?

- a. 13
- b. 15
- c. 9
- d. 11
- e. 7

18. If one is subtracted from each odd digit and one is added to each even digit of each of the numbers, what will be the difference between the third digit and the first digit of the highest number thus formed?

- a. Zero
- b. 6
- c. 4
- d. 2
- e. 5

19. What will be the resultant if the first digit of the highest number is divided by the third digit of the second lowest number?

- a. 0.5
- b. 1
- c. 2
- d. 2.2
- e. 2.25

20. If all the digits in each of the numbers are arranged in descending order within the number from left to right then which of the following will be the second lowest number?

- a. 369
- b. 717
- c. 922
- d. 625
- e. 434

Direction (21-25): Study the following arrangement carefully and answer the questions given below:

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

21. If all the even digits are deleted from the above arrangements, which of the following will be tenth from the right end of the arrangement?

- a. 9
- b. 5
- c. 1
- d. 3
- e. 7

22. How many such perfect squares is/are there in the above arrangement, each of which is immediately preceded or immediately followed by a perfect square but not both?

- a. None
- b. One
- c. Two
- d. Three
- e. Four

23. How many 1's are there in the above arrangement, each of which is immediately preceded

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by a digit which has a numerical value of more than four?

- a. None
- b. One
- c. Two
- d. Three
- e. More than three

24. Which of the following is seventh to the left of the twentieth from the left end of the above arrangement?

- a. 3
- b. 9
- c. 8
- d. 7
- e. 1

25. How many such 5s are there in the above arrangement each of which is immediately preceded by an odd digit and immediately followed by an even digit?

- a. None
- b. One
- c. Two
- d. Three
- f. More than three

Directions (26-30): Study the following letter – number – symbol sequence and answer the questions following it.

6 7 # U V E ? 5 * L H 8 S A 9 T 4 \$ F 3 % Δ G D 8 M 2
X Z W

26. How many symbols are there in the series which are immediately preceded by a number and immediately followed by a letter?

- a. One
- b. Two
- c. Three
- d. Four
- e. None of these

27. If all the symbols are dropped from the series, which letter / number will be eleventh to the left of fifteenth letter / number from your left?

- a. 2
- b. V
- c. 6
- d. Z
- e. None of these

28. If the position of the first and the sixteenth elements, the second and the seventeenth elements, and so on up to the eleventh and the twenty – sixth elements, are interchanged, which letter / number / symbol will be seventh to the right of nineteenth letter / number / symbol from the right?

- a. #
- b. E
- c. V
- d. U
- e. None of these

29. If the positions of the letters in the sequence are reoccupied by the letters themselves though after getting rearranged alphabetically from the left, which

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of the following will indicate the position of L in the new arrangement?

- a. L is fourteenth from left
- b. L is between * and M
- c. L is seventeenth from right
- d. Both (a) and (c)
- e. None of these

30. What is the total number of 'the numbers immediately followed by a letter' and 'the symbols immediately following the letters' together in the above sequence?

- a. Four
- b. Five
- c. Three
- d. Six
- e. None of these

Directions (31-35): These questions are based on the following six numbers.

827 389 485 654 578 217

31. If two digit numbers are formed by taking the 2nd and 3rd digits respectively of each of these numbers and then the two digits of each of these two digit numbers are interchanged, then which number from the given numbers will be the second highest number in the revised form?

- a. 389
- b. 485
- c. 578
- d. 827

- e. None of these

32. If these numbers are written with their digits in the reverse order, which number among them will be third highest?

- a. 485
- b. 578
- c. 217
- d. 389
- e. 827

33. If the first two digits of each number are interchanged, which among these numbers will be the 2nd lowest number?

- a. 485
- b. 645
- c. 217
- d. 827
- e. None of these

34. If one is added to each of the given numbers and then each digit is arranged in descending order within each number, then which of the following number is smallest?

- a. 485
- b. 654
- c. 578
- d. 217
- e. 827

35. If one is subtracted from middle digit in each given numbers and then all the digits in each number is arranged in ascending order then which of the following number is second smallest?

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- a. 485
- b. 654
- c. 578
- d. 217
- e. 827

Directions (36-40): Study the following arrangement carefully and answer the following questions given below:

A B B C C B D E E B B F G H B V K L A A C M N O
B P P Q B R S T U B C V Q X Y Y Y Z Z

36. Which letter is 11th to the right of 10th letter from the left end?

- a. A
- b. M
- c. N
- d. C
- e. None of these

37. Which letter is 13th to the left of 15th letter from the right end?

- a. L
- b. K
- c. B
- d. V
- e. None of these

38. Which letter is 11th to the left of 10th letter from the right?

- a. N
- b. M

- c. O
- d. B
- e. None of these

39. How many letters are in between the letter which is 10th from left end and 15th from right end in the given series?

- a. 14
- b. 15
- c. 18
- d. 13
- e. None of these

40. Which letter is exactly in the middle between the eighteenth letter from the right end and eighteenth letter from the left end in the given alphabet series?

- a. N
- b. C
- c. M
- d. P
- e. None of these

Direction (41-45): Read the information carefully and answer the questions given below.

465 897 364 899 215 456

41. If all the numbers are arranged in descending order from right to left, then which of the following number will be Second digit of third number from the left end?

- a. 6
- b. 4
- c. 5

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d. 3

e. 2

42. If all the digits are arranged in descending order within the number, What is the difference of second and fifth number from the left end?

a. 215

b. 466

c. 400

d. 682

e. None of these

43. If all the digits in the numbers are arranged in ascending order from left to right, what is the difference of third and fourth number in the new arrangement?

a. 445

b. 535

c. 553

d. 456

e. 510

44. If all the numbers are arranged in ascending order from right to left, then what will be the product of second digit of fifth number and third digit of second number from the left end?

a. 56

b. 36

c. 84

d. 42

e. None of these

45. If all the digits in the numbers are arranged in ascending order from left to right and then all the

numbers are arranged in ascending order from right to left, then which of the following will be the sum of second digit of fifth number and first digit of second number from the left end?

a. 10

b. 11

c. 15

d. 13

e. None of these

Directions (46-50): Study the following alphanumeric series carefully and answer the questions given below:

S H 4 B W E ^ 9 8 3 2 U S 2 B V 1 N L 9 8 5 T # 9 \$ J K

46. How many Vowels are present in the above series which are immediately followed or preceded by a perfect square?

a. None

b. One

c. Two

d. Three

e. more than three

47. Which element is exactly between the elements which are 14th from the left end and 8th from the left end?

a. 2

b. 8

c. 3

d. U

e. none of these

48. How many numbers are present in the above series which are perfect square?

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- a. None
- b. One
- c. Two
- d. Three
- e. more than three

49. If first half of the series is interchanged with the 2nd half of the series such that first element of the second half of the series will become the first element of the series (after interchanged) and the last element of the first half of the series become the first element of the second half of the series (after interchanged), then which of the following element is the tenth from the left end (after interchange)?

- a. T
- b. 9
- c. #
- d. 5
- e. none of these

50. If all the numbers are removed from the above series, then which element is 8th to the right of the element which is 4th from the left end?

- a. B
- b. I
- c. L
- d. V
- e. none of these

Answer Key with Explanation

Solutions (1-5):

1. D

After removing every 5th element in a sequence

M @ 9 • Q 3 # 8 U 2 C £ E B G 6 H 4 Z A S D 5 \$

Symbols immediately preceding the letters= M@, C£

Numbers followed by the letters= 8U, 2C, 6H, 4Z

4+2=6

2. C

@9, •K, 9•, #8, 8α, αU, £1, C£, M@, 3#

3. E

M @ 9 • K Q 3 # 8 α U 2 C £ 1 E B G 6 W H 4 Z A

7 S D 5 \$ Y M @ 9 • K Q 3 # 8 α

4. A

Q K • 9 @ M 2 U α 8 # 3 G B E 1 £ C 2 A Z 4 H W
6 Y \$ 5 D S 7

5. C

First element = +3 , Second element = +2 , third element = +2 order

Solutions (6-10):

6. B

Adding to 'one' to the every even digits and subtracting 'two' from every odd digits,

we get

537 975 119 733 571

The second number from the right end is 733

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The second number from left end is 975

Hence, the required difference = $5 - 3 = 2$

7. A

Descending order of the digits,

972 876 830 652 640

Hence, the required sum = $7 + 7 + 3 + 5 + 4 = 26$

8. B

867 308 729 460 652

Difference = $729 - 652 = 77$

9. C

308 460 652 867 729

8th digit from left end = 5

7th digit from right end = 2

Product = $5 \times 2 = 10$

10. C

927 768 803 256 064

Sum = $2 + 6 = 8$

Solutions (11-15):

11. B

ADIM KSAM MTES ROMS SBOS

12. A

ADIM AKMS EMST MORS BOSS

Letters between K and R = 6

13. C

RPMS KSBM SBPS MTFS BDJM

Letters between B and P = 13

14. A

SPMS LTAM TCOS NUES BEIM

15. B

RMS KSM SBS MTS DM

Solution (16-20):

16. A

$4 \times 4 = 16$

17. E

526 is the third lowest number after arranging the first and last digit of each of the numbers

Sum of first and second digit = $5 + 2 = 7$

18. E

833 is the highest number

Required difference = $8 - 3 = 5$

19. E

first digit of the highest number = 9

Third digit of the second lowest number = 4

So, $9/4 = 2.25$

20. D

Solution (21-25):

21. D

5 5 1 1 7 1 7 3 3 7 3 1 7 9 5 1 9 7 3 1

22. D

94 94 14

23. E

51 61 61 51 61

24. C

20^{th} left - 7^{th} left = 13^{th} left = 8

25. A

Solution (26-30):

26. C

We have to look for number – symbol – letter sequence in the given series.

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6 7 # U V E ? 5 * L H 8 S A 9 T 4 \$ F 3 % Δ G D 8
M 2 X Z W

27. B

After dropping all the six symbols the series becomes as follows:

6 7 U V E 5 L H 8 S A 9 T 4 F 3 G D 8 M 2 X
Z W

Now, the 11th element to the left of 15th element from the left \Rightarrow 4th element from the left, ie 'V'

28. D

7th to the right of 19th element from the right = 12th element from the right = $31 - 12 = 19$ th element from the left.

Now, 19th element from the left will be replaced by the fourth element (from the left) in the original series.

Hence, the required element is 'U'

29. D

After rearranging the letters according to the question, the new series becomes as follows:

6 7 # A D E ? 5 * F G 8 H L 9 M 4 \$ S 3 % Δ T
U 8 V 2 W X Z

It is obvious that L is fourteenth element from the left and seventeenth from the right.

30. E

We have to look for number – letter and letter – symbol sequences.

6 7 # U V E ? 5 * L H 8 S A 9 T 4 \$ F 3 % Δ G D 8
M 2 X Z W

Solution(31-35):

31. C

827 389 485 654 578 217
27 89 85 54 78 17
72 98 58 45 87 71

32. E

827 389 485 654 578 217
728 983 584 456 875 712

33.D

827 389 485 654 578 217
287 839 845 564 758 127

34. B

827 389 485 654 578 217
828 390 486 655 579 218

35.E

827 389 485 654 578 217
817 379 475 644 568 207
178 379 457 446 568 027

Solutions (36-40):

36.D

11th to right of 10th from left = $10 + 11 = 21$ st from left = C

37.D

13th to left of 15th from right = $13 + 15 = 28$ th from right = V

38. A

11th to left of 10th from right = $10 + 11 = 21$ st from right = N

39. C

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18 letters are in between the alphabets which are 10th from left and 15th from right end.

40. C

A A C M N O B

Therefore, M is exactly middle of L and P.

Solutions (41-45):

41. C

465 897 364 899 215 456
215 364 456 465 897 899

42. B.

465 897 364 899 215 456
654 987 643 998 521 654
987-521 \rightarrow 466

43. C

465 897 364 899 215 456
456 789 346 899 125 456
899-346 \rightarrow 553

44. D.

465 897 364 899 215 456
899 897 465 456 364 215

$7*6 \rightarrow 42$

45. B

465 897 364 899 215 456
456 789 346 899 125 456
899 789 456 456 346 125
 $7+4 \rightarrow 11$

Solutions (46-50):

S H 4 B W E ^ 9 8 3 2 U S 2 B V I N L 9 8 5 T # 9 \$ J K

46. A

47. A

14th from left end = 2

8th from left end = 9

8 3 2 U S, middle = 2

48. E

Perfect square = 4 9 1 9 9

49. C

B V I N L 9 8 5 T # 9 \$ J K 2 S U 2 3 8 9 ^ E W B 4 H S

10th from left end = #

50. C

S H B W E ^ U S B V N L T # \$ J K