

Number Series - Reasoning Ability for Bank Prelims Exams

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Important Number Series Questions for RRB PO Prelims

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

465 897 364 899 215 456

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

- a) 6
- b) 4
- c) 5
- d) 3
- e).2

2. If all the digits are arranged in descending order within the number then 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

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

- a) 445
- b) 535
- c) 553
- d) 456
- e) 510

4. 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

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e) None of these

5. 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 (6-10): Study the following information carefully and answer the below questions-

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

6. How many such 7's are there in the above arrangement each of which is immediately followed by a digit which has a numerical value of more than four?

- a) None
- b) one
- c) Two
- d) Three
- e) More than three

7. How many such 1's are there in the above arrangement each of which is immediately preceded by a perfect square?

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

8. How many such 9's are there in the above arrangement each of which is immediately preceded and followed by an odd digit?

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

9. Which of the following is third to the left of the eighteenth digit from the left end of the above arrangement?

- a) 8
- b) 3
- c) 4
- d) 5
- e) 1

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

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

Directions (11-15): Study the following information carefully and answer the below questions-

685 513 438 386 297

11. If 2 is added to the first digit of each of the numbers how many numbers thus formed will be divisible by three?

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

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12. If all the digits in each of the numbers are arranged in descending order within the number, which of the following will be the highest number in the new arrangement of numbers ?

- a) 685
- b) 386
- c) 297
- d) 438
- e) None of these

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

- a) 2.5
- b) 3.6
- c) 0
- d) 1.5
- e) 1.6

14. If 1 is added to the first digit and 2 is subtracted from the last digit of each of the numbers then which of the following numbers will be the second highest number?

- a) 386
- b) 685
- c) 438
- d) 297
- e) 513

15. If in each number the first and the second digits are interchanged then which will be the highest number?

- a) 297
- b) 513
- c) 438
- d) 685
- e) 386

Directions (16-20): Study the following information carefully and answer the below questions-

276 652 564 473 739

16. If 2 is added to the middle digit of each number and then the first and the second digits are interchanged, which of the following will be the third digit of the smallest number?

- a) 6
- b) 4
- c) 3
- d) 2
- e) 9

17. If in each number the first and the third digit are interchanged which number will be the second largest number?

- a) 276
- b) 652
- c) 564
- d) 473
- e) 739

18. The sum of which of the following three-digit numbers is not an odd number?

- a) 652
- b) 739
- c) 564
- d) 473
- e) 276

19. If in each number all the three digits are arranged in ascending order within the number, which of the following numbers will be the second smallest number?

- a) 564
- b) 652
- c) 276
- d) 739
- e) 473

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20. If in each number the second and the third digits are interchanged, what will be the sum of the first and the third digit of the largest number?

- a) 9
- b) 8
- c) 10
- d) 12
- e) 15

Directions (21-25): Study the following information carefully and answer the below questions-

345 436 512 417 264

21. If '1' is added to each odd digit, '2' is added to each even digit, which of the following number is the second largest?

- a) 345
- b) 512
- c) 436
- d) 417
- e) None of these

22. If first and third digits are interchanged then 5 is added to even number and 2 is subtracted from odd number, then what is the product of third digit of the highest number with second digit of the second lowest number?

- a) 63
- b) 54
- c) 72
- d) 18
- e) None of these

23. If 2 is added to the digit which is below 5, 1 is subtracted from the digit which is above 5 (include 5 also), how many digit appear twice within the number?

- a) 2
- b) 3
- c) 1

- d) None
- e) None of these

24. If first and third digits are interchanged, then 2 is added to 1st digit of each number, and 1 is subtracted from second digit of each number, then what is the sum of first digit of the highest number and second digit of the third lowest number?

- a) 8
- b) 7
- c) 12
- d) 11
- e) None of these

25. If in each number the second and the third digits are interchanged, what will be the sum of the first and the third digit of the largest number?

- a) 5
- b) 6
- c) 7
- d) 8
- e) 9

Directions (26-30): Study the following information carefully and answer the below questions-

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

26. In the following series of number, find out how many times 6 and 5 have appeared together?

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

27. In the following series of number, find out how many times 5 have appeared?

- a) Two
- b) Three

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- c) Four
- d) Six
- e) Five

28. How many 9s are there which is preceded by 6 but not followed by 7?

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

29. How many numbers are there which are preceded by prime number & followed by perfect Square?

- a) Four
- b) Five
- c) Six
- d) Seven
- e) None of These

30. How many odd numbers are there preceded by perfect cube?

- a) One
- b) Two
- c) Three
- d) Four
- e) Five

Directions (31-35): Study the following information carefully and answer the below questions-

567 987 243 559 727

31. If the above series is arranged in descending order then which among the following will be the third digit from the right end of the second number from the left end?

- a) 3
- b) 7
- c) 9
- d) 5

- e) 2

32. What is the difference between the third digit of the number which is second from the left end and the first digit of the number that is first from the right end as given in the series?

- a) 2
- b) 5
- c) 4
- d) 1
- e) 0

33. If '1' is added to all the even digits and '2' is subtracted from all odd digits then how many 3's can be found in the above series?

- a) 7
- b) 2
- c) 5
- d) 6
- e) 4

34. If all the even digits are removed then what is the sum of first three digits from the right end and last two digits from the left end as in the given series?

- a) 35
- b) 27
- c) 33
- d) 38
- e) 42

35. What is the minimum difference between any two numbers in the above given series?

- a) 11
- b) 9
- c) 7
- d) 8
- e) 0

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

625 389 458 876 268 932

36. If the two digit numbers are formed by taking the 2nd and 3rd digit respectively of each of the given numbers and then the position of 2nd and 3rd digit of each number are interchanged. Then which of the following number will be the second highest number in the revised form?

- a) 876
- b) 389
- c) 458
- d) 268
- e) None of these

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

- a) 625
- b) 268
- c) 458
- d) 876
- e) None of these

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

- a) 625
- b) 932
- c) 458
- d) 268
- e) None of these

39. How many numbers in the given number series are divisible by 3?

- a) 0
- b) 1
- c) 2
- d) 3

e) None of these

40. If one is subtracted from the middle digit of each number and then all the digits in each number are arranged in ascending order from left to right end; then which of the following number is second smallest?

- a) 458
- b) 625
- c) 932
- d) 268
- e) None of these

Directions (41-45): Study the following information carefully and answer the below questions-

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

Q 41. If all the odd numbers are dropped from the above sequence, what is the sum of the numbers present in the odd position of the sequence?

- a) 28
- b) 30
- c) 24
- d) 36
- e) 32

42. How many such multiples of 2 are there in the above sequence which is immediately preceded by even number?

- a) One
- b) Two
- c) Three
- d) Four
- e) Five

43. If all the odd numbers in the sequence are replaced by alphabets starting from A from the left, then which number is replaced by alphabet 'G'?

- a) 4

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- b) 9
- c) 3
- d) 6
- e) 5

44. If every alternate number is dropped from the left end (1 is dropped), how many even numbers have even numbers as both of their neighbours?

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

45. If all the even numbers are increased by 1 in the given sequence, then how many 3's are there in the new sequence?

- a) Three
- b) Four
- c) Five
- d) Six
- e) Seven

Directions (46-50): Study the following information carefully and answer the below questions-

324 489 176 294 595

46. If the entire digits in each number is added within itself. Then, what is the difference between highest and lowest number?

- a) 15
- b) 12
- c) 20
- d) 18
- e) None of these

47. If the digits in each numbers are arranged in ascending order within the number. Then, what is difference between highest and lowest number?

- a) 392

- b) 362
- c) 374
- d) 382
- e) None of these

48. What is the product of highest digit of the second highest number and lowest digit of the lowest number?

- a) 12
- b) 8
- c) 9
- d) 10
- e) None of these

49. If the third digit of each number is decreased by 1, then how many numbers are divisible by 3?

- a) 1
- b) 2
- c) None
- d) 3
- e) 4

50. Among the following numbers, how many numbers are divisible by 3?

- a) One
- b) Two
- c) Three
- d) More Than Three
- e) None of These

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Detailed Explanation with Answers

Answers (1-5): The given number series in question is-
465 897 364 899 215 456

1) Arrange numbers in descending order from right to left-

215 364 456 465 897 899

Second digit of third number from left end is 5.

Answer: C (5)

2) After arranging digits in descending order within number in second and fifth number from left end-

New number becomes 987 and 521

Difference between them- $987 - 521 = 466$

Answer: B (466)

3) After arranging digits in ascending order within number in third and fourth number from left end-

New number becomes 899 and 346

Difference between them- $899 - 346 = 553$

Answer: C (553)

4) Arrange the numbers in ascending order from right to left-

899 897 465 456 364 215

Product of second digit of fifth number and third digit of second number- $6 * 7 = 42$.

Answer: D (42)

5) Firstly, arrange all the digits in the number in ascending order from left to right-

456 789 346 899 125 456

Then arrange all the numbers in ascending order from right to left-

899 789 456 456 346 125

The sum of second digit of fifth number and first digit of second number- $4 + 7 = 11$

Answer: B (11)

Answers (6-10): Given number series are as follows-

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

6) 7's which is immediately followed by number greater than 4-

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

Answer: D (three)

7) 1's which is immediately preceded by a perfect square-

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

Answer: C (two)

8) 9's which is immediately preceded and followed by an odd number-

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

Answer: B (one)

9) Digit third to the left of the eighteenth digit from the left end is 4.

Answer: C (digit 4)

10) After eliminating all even digits from right end then 9th digit from right end is 3.

Answer: B (digit 3)

Answers (11-15): Given number series as follows-

685 513 438 386 297

11) Add 2 in first digit of every number one by one-

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New series becomes-

885 713 638 586 497

Only 885 is divisible by 3.

Answer: **B (one)**

12) Arrange all digits in ascending order within the number, then new series becomes-

865 531 843 863 972

Highest number is 972 which is arrived by a given number 297 in given series.

Answer: **C (297)**

13) Second lowest number – 386

Highest number- 685

When second digit of the second lowest number is divided by the third digit of the highest number- $8/5 = 1.6$

Answer: **E (1.6)**

14) When 1 is added to the first digit and 2 is subtracted from the last digit of each of the number in given series, it becomes-

783 611 536 484 395

Second highest number is 611 which is obtained by the number 513.

Answer: **E (513)**

15) After interchanging first and second digit of every number, the new series becomes-

865 153 348 836 927

Highest number will be 927 which is obtained by 297.

Answer: **A (297)**

Answers (16-20): Given number series is-

276 652 564 473 739

16) When 2 is added to the middle digit of every number, the new series becomes-

296 672 584 493 759

Now, after interchanging first and second digit of every number-

926 762 854 943 579

Third digit of smallest number is- 9

Answer: **E (9)**

17) After interchanging first and third digit of every number, new series as follows-

672 256 465 374 937

Second largest number is 672 which is obtained by 276.

Answer: **A (276)**

18) First, add digits of every given number-

$276 - 2+7+6 = 15$

$652 - 6+5+2 = 13$

$564 - 5+6+4 = 15$

$473 - 4+7+3 = 14$

$739 - 7+3+9 = 19$

The sum of the digits of number 473 is an even number only.

Answer: **D (473)**

19) Arrange all digits in ascending order within the number-

267 256 456 347 379

The second smallest number is 267 which is obtained by 276.

Answer: **C (276)**

20) When second and third digits are interchanged, then new series is-

267 625 546 437 793

Largest number – 793

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Sum of first and third digit is $7+3 = 10$.

Answer: **C (10)**

Answers (21-25): Given number series in question as follows-

345 436 512 417 264

21) After adding '1' to odd digit and '2' to even digit, new series becomes-

466 648 624 628 486

Second largest number is 628 which is obtained by the number 417.

Answer: **D (417)**

22) Interchange the first and third digit of every number of given series. New series as follows-

543 634 215 714 462

Now, add '5' to even numbers and subtract '2' from odd numbers-

$543-2 = 541$

$634+5 = 639$

$215-2 = 213$

$714+5 = 719$

$462+5 = 467$

Highest number – 719

Second lowest number – 467

The product of third digit of the highest number with second digit of the second lowest number- $9 * 6 = 54$.

Answer: **B (54)**

23) By adding, '2' in digit which is less than 5 and subtract '1' in every digit of number which is equal or greater than 5, then new series becomes-

564 655 434 636 456

Three numbers are there in which digits come twice within a number.

Answer: **B (3)**

24) First interchange both first and third digit of every number, new series becomes-

543 634 215 714 462

After adding '2' to every first digit and subtract '1' to second digit of every number-

733 824 405 904 652

Highest number- 904

Third lowest number- 733

Product- $9+3 = 12$.

Answer: **C (12)**

25) After interchanging, second and third digit of every number, new series becomes-

354 463 521 471 246

Highest number – 521

Add first and third digit- $5+1 = 6$.

Answer: **B (6)**

Answers (26-30): Given number series in question as follows-

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

26) 9 7 6 9 7 2 4 5 9 2 7 2 4 6 9 7 8 6 5 3 7 8 9 7 6 5 3 4 2 8 4 7 8 4 5 6

Three time digit 6 and 5 come together.

Answer: **A (three)**

27) 9 7 6 9 7 2 4 5 9 2 7 2 4 6 9 7 8 6 5 3 7 8 9 7 6 5 3 4 2 8 4 7 8 4 5 6

Four times '5' appeared in the given series.

Answer: **C (four)**

28) 9 7 6 9 7 2 4 5 9 2 7 2 4 6 9 7 8 6 5 3 7 8 9 7 6 5 3 4 2 8 4 7 8 4 5 6

There is no 9s in the given series which is preceded by 6 but not followed by 7.

Answer: **E (none)**

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29) 9 7 6 9 7 2 4 5 9 2 7 2 4 6 9 7 8 6 5 3 7 8 9 7 6 5 3 4
2 8 4 7 8 4 5 6

There are seven digits which is preceded by prime number and followed by perfect square.

Answer: **D (seven)**

30) 9 7 6 9 7 2 4 5 9 2 7 2 4 6 9 7 8 6 5 3 7 8 9 7 6 5 3 4
2 8 4 7 8 4 5 6

There is only one odd number which is preceded by perfect cube.

Answer: **A (one)**

Answers (31-35): Given number series as follows-
567 987 243 559 727

31) Arrange numbers in descending order from left end-
987 727 567 559 243

Now, third digit from right end of the number which is second from the left end- number is- 727.

Answer: **B (7)**

32) 567 987 243 559 727

Third digit of the number which is second from the left-
7

First digit of the number which is first from right end- 7
Difference- $7-7=0$

Answer: **E (zero)**

33) First, add '1' to even digits and subtract '2' from odd digit-

375 795 351 337 535

There are five 3s in the obtained series.

Answer: **C (five)**

34) After eliminating even digits, first three digits from right end are- $7+7+9=23$

Last digits from left end- $5+7=12$

Total sum- $23+12=35$.

Answer: **A (35)**

35) Given number series is-

567 987 243 559 727

Here, we can clearly observe that minimal difference must be between 567 and 559.

Difference- $567-559=8$.

Answer: **D (8)**

Answers (36-40): Given number series as follows-

625 389 458 876 268 932

36) First take second and third digit of every number-
25 89 45 76 68 32

Now interchange their positions-
52 98 54 67 86 23

Then the second largest number is 86 formed by given number 268.

Answer: **D (268)**

37) Arrange number with reversing digits within the number-

526 983 854 678 862 239

Third highest number is 854 formed by 458.

Answer: **C (458)**

38) After interchanging first and second digit within the number-

265 839 548 786 628 392

Second lowest number – 392 obtained by 932.

Answer: **B (932)**

39) Only number 876 is divisible by 3.

Answer: **B (1)**

40) When one is subtracted from middle digit of every number-

615 379 448 668 258 229

Then arrange numbers in ascending order from left to right-

156 379 448 668 258 229

Second smallest number- 229 obtained by 932.

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Answer: C (932)

Answers (41-45) Given numbers series as follows-
5 1 2 9 3 8 7 1 4 6 8 3 2 3 9 7 1 2 5 4 8 9 3 5 4 6 7 6

41) After removing every odd numbers-

2 8 4 6 8 2 2 4 8 4 6 6

Sum of the numbers present at odd position-

(Satisfied with both ends i.e. right and left)

$$2+4+8+2+8+6=30$$

$$6+4+4+2+6+8=30$$

Answer: B (30)

42) 5 1 2 9 3 8 7 1 4 **68** 3 2 3 9 7 1 2 5 4 **8** 9 3 5 4 **6** 7 6

There are four numbers in the given series which is multiple of 2 and preceded by even numbers.

Answer: D (four)

43) 5 1 2 9 3 8 7 1 4 6 8 3 2 3 9 7 1 2 5 4 8 9 3 5 4 6 7 6

Now every odd number is replaced by letter A from left end, new series becomes-

A B 2 C D 8 E F 4 6 8 G

Letter G is 3 as per the series.

Answer: C (3)

44) After eliminating every alternative number, new series becomes-

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

Only 8 is the number which is immediately preceded and followed by even number.

Answer: B (one)

45) Here, we want to count number 3 only and it will formed when 1 is added to even number 2 only. So, total number of 3 is- 7

Answer: E (seven)

Answers (46-50): Given number series as follows-
324 489 176 294 595

46) When entire digits of every number is added-

$$3+2+4=9$$

$$4+8+9=21$$

$$1+7+6=14$$

$$2+9+4=15$$

$$5+9+5=19$$

Difference between highest and lowest number- $21-9=12$.

Answer: B (12)

47) Arrange digits in ascending order within the number-

234 489 167 249 559

Now difference between the highest and lowest number- $559-167=392$

Answer: A (392)

48) Highest digit of second highest number (489) is 9

Smallest digit of lowest number (176) is 1

$$\text{Product- } 1 \times 9=9$$

Answer: C (9)

49) If '1' is subtracted by the third digit of every number-

323 488 175 293 594

Now, only number 594 is divisible by 3.

Answer: A (one)

50) Only three numbers in the given series- 324, 489 and 294 is divided by 3.

Answer: C (three)

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