NTSE

Ranking and Ordering Test

Number Quibble

In these type of question, generally a set, group or series of numerals is given and the candidate is required to find out how may times a number satisfying the conditions, specified in the question occurs.

Ex 1. How many 5's are there in the following sequence which are immediately followed by 3 but not immediately preceded by 7?
8953253855687335775365335738
(A) One
(B) Two

(C) Three (D) Four

- Sol. (C) 89<u>53253</u>85568733577536<u>53</u>35738 Clearly, there are three such numbers.
- **Ex 2.** In the following number series how many 8's are there which are exactly divisible by the numbers which are preceded and followed by it?

(A) I	(B) 2
(C) 3	(D) 4

Sol. (D) As per the question 8245172<u>8</u>422<u>8</u>2698454832<u>8</u>43183 Thus, four such numbers are there

Alphabetical Quibble

In these type of questions, generally a letter-series is given, be it the English alphabets from A to Z or a randomized sequence of letters. The candidate is then required to trace the letters satisfying certain given conditions as regards their position in the given conditions as regards their position in the given sequence or the sequence obtained by performing certain given operations on the given sequence.

Ex 3. How many W's are there in the following series which are immediately followed by W but not immediately preceded by K?

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DWWDHKVDWZDWWWDDWKWWDKKDHC
(A) One (B) Two
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(C) Three (D) None

Sol. (C) Clearly, W's satisfying the given conditions can be marked as under

DWWDHKVDWZDWWWDDWKWWDKKDHC

Ex 4. How many L's are there which do not have R preceding them and also do not have T following them?

ZQSTLRMNMNQNRTUVXRLTASLTQRSLT

(A) 1	(B) 2
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(C) 3	(D) 5
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Sol. (A) ZQST<u>L</u>RMNMNQNRTUVXRLTASLTQRSLT

Alpha-Numeric Quibble

In these type of questions a jumped sequence of some letters, numbers and symbols is given and the candidate is required to find out how may times a number or a letter or a symbol satisfying the conditions, specified in the question occurs.

Directions: (5 to 6) Study the following arrangement of symbols, letters and numbers to answer the questions given below it:

δ=βF2**♣**KS75#\$PLV8@MUE6↑QG©93**&**TYφ

Ex 5. How many such letters are there in the arrangement each of which is either immediately preceded by a symbol or immediately followed by a number, but not both?

(A) Three	(B) Four
(C) Five	(D) None of these

Sol. (D) The letters satisfying the given conditions are shown as under: δ=βF2★KS75#\$PLV8@MUE6↑QG©93&TYφ

Clearly, there are 8 such letters.

- **Ex 6.** How many such consonants are there in the above arrangement each of which is immediately followed by a consonant but not immediately preceded by a symbol?
 - (A) Nil (B) One
 - (C) Two (D) Three
- Sol. (B) We know that of the 26 letters of English alphabet, five letters namely A, E, I, O, U are vowels, while remaining are consonants. The consonants satisfying the given conditions may be shown as under:
 δ=βF2€KS75#\$PLV8@MUE6↑QG©93&TYφ

Clearly, there is only one such consonant.

Ranking Test

In these type of questions, generally the ranks of a person both from the top and from the bottom are mentioned and the total number of persons is asked. However, sometimes this question is put in the form of a puzzle of interchanging seats by two persons.

Useful Tips

- Position of person from upward

 = [Total number of persons position of person from down] + 1

 Position of person from downward
 - = [Total number of persons position of person from up] + 1

- 3. Position of person from right = [Total number of persons – position of person from left] + 1
- Position of person from left
 = [Total number of persons position of person from right] + 1
- 5. Total number of persons
 = [Position of person from upward/right +position of person from downward / left] -1
- Ex 7. In a row of girls, Mridula is 18th from the right and Sanjana is 18th from the left. If both of them exchange their position, Sanjana becomes 25th from the left, how many girls are there in the row?
 (A) 40
 (B) 41
 - (C) 42 (D) 35
- Sol. (C) Sanjana's new position is 25th from left. But it is the some as Mridula's earlier position which is 18th from the right.
 Then the total number of girls are = (rank from left +

rank from right) -1

=(18+25)-1=43-1=42.

- **Ex 8.** Anil and Sunil are ranked seventh and eleventh respectively from the top in a class of 31 students. What will be their respective ranks from the bottom in the class?
 - $\begin{array}{ll} (A) \ 20^{th} \ and \ 24^{th} \\ (C) \ 25^{th} \ and \ 21^{st} \\ \end{array} \qquad \begin{array}{ll} (B) \ 24^{th} \ and \ 20^{th} \\ (D) \ 26^{th} \ and \ 22^{nd} \\ \end{array}$
- Sol. (C) Number of students behind Anil in rank = (31-7) = 24. So, Anil is 25^{th} from the bottom. Number of students behind Sunil in rank = (31-11) = 20. So, Sunil is 21^{st} from the bottom.

Ordering Test

In such type of questions, clues are given regarding comparisons among a set of persons or things with respect their qualities. The candidate is required to analyses the whole information, form a proper ascending/descending sequence and then answer the given questions accordingly.

Ex 9. A is shorter than B but much taller than E. C is the tallest and D is shorter than A and taller than E. Which one is the shortest?

(A) A	(B) E
(C) B	(D) D

Sol. (B) According to the given statement E < D < A < B < C

- **Ex 10.** A is richer than B.
 - C is richer than A.
 - D is richer than C.
 - E is the richest of all

If they are made to sit in the above degree of richness who will be in the middle position (central position)?

(A) A	(B) B
(C) C	(D) D

- Sol. (C) According to the given statement Poorer Richer B<A<C<D<E C is in the middle position.
- **Ex 11.** Ashok is older than Suresh, Vivek is not youngest. Raju is older than Ashok and Vivek is not older than Suresh. Which one of the following statements must necessarily be true?
 - I. Vivek is as old as Ashok
 - II. Vivek is as old as Raju
 - III. Vivek is as old as Suresh
 - IV. Suresh is younger than Vivek
 - (A) Only I (B) Only II
 - (C) Only III (D) Either III or IV
- Sol. (C) According to the given statement V = S < A < R

Directions: (12 to 13) Read following information carefully and answer the questions given below it: (i) P, Q, R, S and T are five friends. (ii) Q is elder to T (iii) R is younger to P. (iv) P is younger to T.

- (v) S is elder to P.
- Ex 12. Who among the following is the eldest? (A) P (B) Q (C) S (D) Data inadequate
- Ex 13. Who among the following is the youngest? (A) P (B) R
- (C) T (D) Data inadequate **Sol.** (12 to 13) Thus, sequence of their age becomes
 - Q>T>S>P>R or Q>S>T>P>R or S>Q>T>P>R
- 12. (D) According to a given statement there are three sequences, as follows:
 Q>T>S>P>R or Q>S>T>P>R or S>Q>T>P>R
 Hence the answer is data inadequate
- **13.** (B) Cleary, R is the youngest.

EXERCISE

How many even numbers are there in the following sequence of numbers which are immediately followed by an odd number as well as immediately preceded by an even number?

 8 6 7 6 8 9 3 2 7 5 3 4 2 2 3 5 5 2 2 8 1 1 9
 (A) One
 (B) Three
 (C) Five
 (D) None of these

 In the following series, how many times the sum of two consecutive numbers results an even number?

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

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

 (A) 3
 (B) 4

(C) 5	(D) None of these
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3. In the following number series, how many 8's are there which are immediately preceded by a number which does not divide it but followed by a number which divides it?

 $2\ 8\ 2\ 8\ 3\ 8\ 5\ 8\ 8\ 5\ 3\ 2\ 8\ 2\ 3\ 8\ 4\ 7\ 1\ 5\ 8\ 3\ 8\ 2\ 8\ 6$

(A) 1 (B) 2 (C) 2 (D) 4

- In the following series of numbers, find out how many times, 1, 3 and 7 have appeared together, 7 being in the middle and 1 and 3 on either side of 7? 2973173771331738571377173906 (A) One (B) Two
 (C) Three (D) Four
- 5. The positions of how many digits in the number 423157698 will remain unchanged after the digits within the number are arranged in ascending order?
 (A) None
 (B) One
 (C) Two
 (D) Three
- 6. In the following series how many Cs are there which are immediately followed by 'Y' but not immediately preceded by 'J'?
 - J C D Y J C Y O J H C Y Y Y C I J W C Y A C Y (A) one (B) two (C) three (D) four
- 7. How many A's are there in the following series which are immediately followed by B as immediately preceded by Z?
 AMBZANAABZABAZBAPZABAZAB
 (A) Nil
 (B) One
 (C) Two
 (D) Three
- **Directions: (8 to 10)** These questions are based on the following arrangement of symbols, letters and numbers.

 \uparrow 9BQ=\$25RJ ∂ L3@YME68 \pm +DF4 β H7©

8. How many such numbers are there in the arrangement each of which is immediately preceded by a symbol but not immediately followed by a letter?

(A) Nil	(B) One
(C) Two	(D) Three

9. How many such symbols are there in the above arrangement each of which is either immediately followed by a number or immediately preceded by a letter?

(A) One	(B) Two
(C) Three	(D) Four

- How many such letters are there in the arrangement each of which is immediately followed by a number but not immediately preceded by a symbol?
 (A) Nil
 (B) One
 (C) Two
 (D) Three
- **11.** In a Class Vidya ranks 7th from the top, Divya is 7 ranks ahead of Medha and 3 ranks behind Vidya. Sushma who is 4th from the bottom, is 32 ranks behind Medha. How many students are there in the class?

(A) 52	(B) 49
(C) 50	(D) None of these

- 12. There persons A, B and C are Standing in a queue. There are five persons between A and B and eight persons between B and C. if there be three persons ahead of C and 21 persons behind a, what could be the minimum number of persons in the queue. (A) 41 (B) 40
- (C) 28 (D) None of these
 13. In a queue of boys Sohan is 9th from the back. Ramesh's place is 8th from the front. Radhey is standing in the middle of the two. What could be the minimum number of boys standing in the queue?
 (A) 8 (B) 10
 (C) 12 (D) 14
- If all the numbers from 7 to 59, which are divisible by 3 are arranged in descending order then which number will be at 10th place from the bottom?
 (A) 36
 (B) 39
 (C) 30
 (D) 27
- 15. In a row of girls, Rina and Mona occupy the ninth place from the right end and tenth place from the left end, respectively. If they interchanged their places, Rina and Mona occupy seventeenth place from the right and eighteenth place from the left, respectively. How many girls are there in the row?
 (A) 25 (B) 26
 (C) 27 (D) Data inadequate
- 16. In a class of 35 students, Kunal is placed seventh from the bottom where as Sonali is placed ninth from the top. Pulkit is placed exactly in between the two. What is Kunal's position from Pulkit?
 - (A) 9 (B) 10 (C) 11 (D) 13
- 17. In a queue, A eighteenth from the front while B is sixteenth from the back. If C is twenty-fifth from the front and is exactly in the middle of A and B, then how many persons are there in the queue?
 (A) 45 (B) 26

(C) 27 (D) Date inadequate

18. Students line up in a queue in which Ashish stands fifteenth from the left and Sachin is seventh from the right. If they interchange their places, Sachin would be fifteenth from the right. How many students are there in the queue?

(A) 21		(B) 22		
(C) 29		(D) None	of	these
			~ ~	~

- 19. Nitin was counting down from 32. Sumit was counting upwards, the numbers starting from 1 and he was calling out only the odd numbers. What common number will they call out at the same time if they were calling out at the same speed?
 (A) 19 (B) 21 (C) 22
 (D) They will not call out the same speed purpose.
 - (D) They will not call out the same number

20.	20. In a group of six children, Q is taller than P but r as tall as L. M is taller than N and O, but not as t as P. Who is the shortest among them?			
	(A) N (B) O			
	(C) M	(D) Data inadequate		
21. R earns more than H but not as much as		an H but not as much as T, M earns		
	more than R. Who earns least among them?			
	(A) H	(B) R		
	(C) T	(D) M		

Direction: (22 to 24) Read the following information an answer the questions.

A was punctual. B came after him and immediately before B. D was earliest but E was last of all getting to school.

22.	Who arrived first at school?							
	(A) A	(B) B						
	(C) C	(D) D						
23.	Who arrived second?							
	(A) A	(B) B						
	(C) C	(D) D						
24.	Who came third?							
	(A) A	(B) B						
	(C) C	(D) D						

Direction: (25 to 29) Read the following information an answer the questions given below it: Alka is older than Mala. Gopal is older than Mal but younger than Alka. Kapil is younger than Ran and Mala. Mala is older than Ram. 25. Whose age is between Gopal and Ram? (A) Mala (B) Kapil (C) Alka (D) None of these Whose age is between Mala and Kapil? 26. (B) Ram (A) Gopal (C) Alka (D) None of these 27. Whose age is exactly in the middle of all the five? (A) Mala (B) Gopal (C) Ram (D) Alka Who is the eldest? 28. (A) Alka (B) Mala (C) Kapil (D) Gopal 29. Who is the youngest? (A) Mala (B) Ram (C) Alka (D) Kapil 30. How many odd numbers are in the following number series, which does not contains just after it an od number, but contains an even number just before it? (NTSE Stage-I /Raj./2007) (A) 36 (B) 40 (C) 42 (D) 48

31. How many A are in the given letter series which does not has B just before it but has C just after it? (NTSE Stage-I/Raj./2007) B) 40 (A

ot		(C) 42	(D) 48
.11	32.	How many A	are in the given letter series which
		does not has B	just before it but has C just after it?
			(NTSE Stage-I /Rai./2007)
		DACBACDAC	BCACBACBADC
าร		(A) 3	(B) 4
10		$(\Gamma) 5$	(\mathbf{D}) 6
	33	How many 0°	are there which come after 6 or
	55.	multiple of 32	are there which come after 0 of
		6000607060705	02080606000070806078
d		0999091909193	(NITSE Store II 2007)
lu		(Λ) 7	$(\mathbf{N}\mathbf{I}\mathbf{S}\mathbf{E}\mathbf{S}\mathbf{t}\mathbf{a}\mathbf{g}\mathbf{c}\cdot\mathbf{I}\mathbf{I},2007)$
C		(A) / (C) 11	(b) 9 (D) 6
C .	24	(C) II	(D) 0
st	34.	Snyam ranked	12 th from the top and 28 th from the
		bottom among	those children who passed the
		examination. Eig	ght children failed in the examination
		while five cl	hildren did not appear in the
		examination. He	ow many children were there in the
		class?	
			(NTSE Stage-II, 2007)
		(A) 50	(B) 51
		(C) 52	(D) 53
	35.	If you write all	the numbers from 201 to 250, then
		how many times	s will you write the numeral 2?
			(NTSE Stage-II, 2007)
ıd		(A) 70	(B) 65
		(C) 25	(D) 80
la	36.	How many c's	are there in between two consonants
m		in the following	series?
		c a b c d c d c e	cfcocIcjckcck
			(NTSE Stage-II, 2007)
		(A) 4	(B) 5
		(C) 6	(D) 11
	37.	How many tim	nes '+' comes before '+' and after
		'×'?	
		+ ^ (\(\) ^ -	
		$+ \times \div - \bigcup \times + \div$	\dot{z}
		×	
		$+\div \bigcirc \times +\div$	(NTSE Stage-II, 2007)
		(A) 6	(B) 5
		(C) 4	(D) 7
	38.	There are five fi	riends A, B, C, D, and E. A is shorter
		than B but taller	then E, C is tallest, D is little shorter
		than B and little	e taller than A. If they are standing in
er		the order of their	r heights who will be in the middle?
ld			(NTSE Stage-1/Raj./ 2008)
		(A) D	(B) C
		(C) A	(D) B
	39.	In the following	g series how many 4's are preceded
		by 5 but not foll	owed by 2 or 3.
ch		54547654n	23854115463642
t?			(NTSE Stage-I/ Rai./2008)

(A) 2

(C) 3

(B) 4

(D) 5

40.	In a class the rank of Sohan is sixteen from the top		(NTSE Stage-I Raj./ 2008)			
	and fortynine from the bottom. The total number of	(A) 64	(B) 65			
	students in the class are-	(C) 66	(D) 67			

ANSWER KEY															
Que.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Ans.	D	B	С	С	D	С	D	B	D	С	Α	С	В	Α	В
Que.	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Ans.	B	С	С	D	D	Α	D	Α	С	Α	В	Α	Α	D	В
Que.	31	32	33	34	35	36	37	38	39	40					
Ans.	С	Α	С	С	В	B	Α	Α	В	Α					