**NUMBER SQUENCE**

**In Number sequence questions, you are given a long series of numbers. It is required to find out how many times a number satisfying conditions, specified in the questions, occurs.**

**1.** Which is the third number to the left of the number which is exactly in the middle of the following sequence of numbers? **1  2  3  4  5  6  7  8  9  2  4  6  8  9  7  5  3  1  9  8  7  6  5  4  3  2  1**

A. 3       B. 4       C. 5       D. 6       E. 7

**2.** How many 3's are there in the following sequence which are neither preceded by 6 nor immediately followed by 9? **9  3  6  6  3  9  5  9  3  7  8  9  1  6  3  9  6  3  9**

A. One       B. Two       C. Three       D. Four       E. None of these

**3.** Count each 7 which is not immediately preceded by 5 but is immediately followed by either 2 or 3. How many such 7's are there? **5  7  2  6  5  7  3  8  3  7  3  2  5  7  2  7  3  4  8  2  6  7  8**

A. 2       B. 3       C. 4       D. 5

**4.** How many 6's are there in the following series of numbers which are preceded by 7 but not immediately followed by 9? **6  7  9  5  6  9  7  6  8  7  6  7  8  6  9  4  6  7  7  6  9  5  7  6  3**

A. One       B. Two       C. Three       D. Four

**5.** How many 7's are there in the following series which are not immediately followed by 3 but immediately preceded by 8? **8  9  8  7  6  2  2  6  3  2  6  9  7  3  2  8  7  2  7  7  8  7  3  7  7  9  4**

A. 10       B. 3       C. 2       D. 0       E. None of these

**6.**Count each 1 in the following sequence of numbers that is immediately followed by 2, if 2 is not immediately followed by 3. How many such 1's are there ?  
**1  2  1  3  4  5  1  2  3  5  2  1  2  6  1  4  5  1  1  2  4  1  2  3  2  1  7  5  2  1  2  5**

A. 2       B. 4       C. 5       D. 7       E. 9

**7.**How many 7's are there in the following series which are preceded by 6 which is not preceded by 8?  
**8  7  6  7  8  6  7  5  6  7  9  7  6  1  6  7  7  6  8  8  6  9  7  6  8  7**

A. Nil       B. One       C. Two       D. Three       E. None of these

**8.**In the following list of numerals, how many 2's are followed by 1's but not preceded by 4?  
**4  2  1  2  1  4  2  1  1  2  4  4  4  1  2  2  1  2  1  4  4  2  1  4  2  1  2  1  2  4  1  4  2  1  2  4  1  4  6**

A. Two       B. Three       C. Four       D. Five

**9.**How many 7's are there in the following sequence which are precedede by 9 and followed by 6?  
**7  8  9  7  6  5  3  4  2  8  9  7  2  4  5  9  2  9  7  6  4  7**

A. 2       B. 3       C. 4       D. 5       E. None of these

**10.**In the series : **7  8  9  7  6  5  3  4  2  8  9  7  2  4  5  9  2  9  7  6  4  7**Which figures have equal frequency?

A. 253       B. 245       C. 375       D. 865       E. None of these

**11.**How many 6's are there in the following number sequence which are immediately preceded by 9 but not immediately followed by 4?  
**5  6  4  3  2  9  6  3  1  6  4  9  6  4  2  1  5  9  6  7  2  1  4  7  4  9  6  4  2**

A. One       B. Two       C. Three       D. Four       E. More than four

**12.**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?  
**2  9  7  3  1  7  3  7  7  1  3  3  1  7  3  8  5  7  1  3  7  7  1  7  3  9  0  6**

A. 3       B. 4       C. 5       D. More than 5       E. None of these

**In the series**,  
**6  4  1  2  2  8  7  4  2  1  5  3  8  6  2  1  7  1  4  1  3  2  8  6**  
**13.**How many pairs of alternate numbers have a difference of 2?

A. One       B. Two       C. Three       D. Four

**14.**How many even numbers are there in the following sequence of numbers which are immediately followedby 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. Six       E. None of these

**Series : 5  1  4  7  3  9  8  5  7  2  6  3  1  5  8  6  3  8  5  2  2  4  3  4  9  6**  
**15.** How many odd numbers are there in the sequence which is immediately followed by an odd number?

A. 1       B. 2       C. 3       D. 4       E. More than 4

**Series : 5  1  4  7  3  9  8  5  7  2  6  3  1  5  8  6  3  8  5  2  2  4  3  4  9  6**  
**16.** How many even numbers are there in the sequence which are immediately preceded by an odd number but immediately followed by an even number?

A. 1       B. 2       C. 3       D. 4       E. More than 4

**Series : 5  1  4  7  3  9  8  5  7  2  6  3  1  5  8  6  3  8  5  2  2  4  3  4  9  6**  
**17.** How many odd numbers are there in the sequence which are immediately preceded and also immediately followed by an even number?

A. 1       B. 2       C. 3       D. 4       E. More than 4

**18.** In the following series, how many such odd numbers are there which are divisible by 3 or 5, then followed by odd numbers and then also followed by even numbers?  
**12, 19, 21, 3, 25, 18, 35, 20, 22, 21, 45, 46, 47, 48, 9, 50, 52, 54, 55, 56**

A. Nil       B. One       C. Two       D. Three       E. None of these

**19.** In the following number sequence, how many such even numbers are there which are exactly divisible by its immediate preceding number but not exactly divisible by its immediate following number?  
**3  8  4  1  5  7  2  8  3  4  8  9  3  9  4  2  1  5  8  2**

A. One       B. Two       C. Three       D. Four       E. None of these

**20.** 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 number       E. NFT

**21.** If the first and second digits in the sequence **5 9 8 1 3 2 7 4 3 8** are interchanged, also the third and fourth digits, the fifth and sixth digits and so on, which digit would be the seventh counting to your left ?

A. 1       B. 4       C. 7       D. 6       E. None of these

**22.** If the position of the first and the sixth digits of  the sequence of numbers **8  9  0  3 2  1  4  6  7  5** are interchanged, the second and the seventh and so on. Which number would be seventh from the right end?

A. 2       B. 6       C. 7       D. 8       E. 9

**23.** The letters L, M, N, O, P, Q, R, S and T in their order are substituted by nine intergers 1 to 9 but not in that order. 4 is assigned to P. The difference between P and T is 5. The difference between N and T is 3. What is the integer assigned to N?

A. 4       B. 5       C. 6       D. 7

**24.** Thirty six vehicles are parked in a parking lot in a single row. After the first car, there is one scooter. After the second car, there are two scooters. After the third car, there are three scooters and so on. Work out the number of scooters in the second half of the row.

A. 10       B. 12       C. 15       D. 17

**In a school, the following codes were used during physical exercise. '1' means 'start walking', '2' means 'keep standing', '3' means 'start running at the same spot', '4' means 'sit down'.**

**25.** How many times will a student who performs the following sequence without error from the beginning to the end have to sit down?  
**1  2  3  4  2  3  1  4  4  3  2  2  1  2  4  3  1  4  4  1  2**

A. 2       B. 3       C. 4       D. 5       E. None of these

**26.** If the numbers from 1 to 45 which are exactly divisible by 3 are arranged in ascending order, minimum number being on the top, which would come at the ninth place from the top?

A. 18       B. 21       C. 24       D. 27       E. 30

**27.** If the numbers from 5 to 85 which are exactly divisible by 5 are arranged in descending order, which would come at the eleventh place from the bottom?

A. 35       B. 45       C. 50       D. 60       E. None of these

**28.** How many numbers from 1 to 100 are there each of which is not exactly divisible by 4 but also has 4 as a digit?

A. 7       B. 10       C. 20       D. 21       E. More than 21

**29.** How many numbers amongst the numbers 9 to 54 are there which are exactly divisible by 9 but not by 3?

A. 8       B. 6       C. 5       D. Nil

**RANKING SEQUENCE**

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

## 1.In a row of trees, one tree is fifth from either end of the row. How many trees are there in the row?

A. 8       B. 9       C. 10       D. 11

## 2.In a queue, Amrita is 10th from the front while Mukul is 25th from behind and Mamta is just in the middle of the two. If there be 50 persons in the queue. What position does Mamta occupy from the front?

A. 20th       B. 19th       C. 18th       D. 17th

## 3.Raman ranks sixteenth from the top and forty ninth from the bottom in a class. How many students are there in the class?

A. 64       B. 65       C. 66       D. Cannot be determined       E. None of these

## 4.Sanjeev ranks seventh from the top and twenty eight from the bottom in a class. How many students are there in the class?

A. 37       B. 36       C. 35       D. 34

## 5.If Atul finds that he is twelfth from the right in a line of boys and fourth from the left, how many boys should be added to the line such that there are 28 boys in the line?

A. 12       B. 13       C. 14       D. 20       E. None of these

## 6.Manisha ranked sixteenth from the top and twenty ninth from the bottom among those who passed an examination. Six boys did not participate in the competition and five failed in it. How many boys were there in the class?

A. 40       B. 44       C. 50       D. 55       E. 58

## 7.Some boys are sitting in a row. P is sitting fourteenth from the left and Q is seventh from the right. If there are four boys between P and Q, how many boys are there in the row?

A. 25       B. 23       C. 21       D. 19       E. None of these

**8.**Aruna ranks twelfth in a class of forty-six. What will be her rank from the last?

A. 33       B. 34       C. 35       D. 37       E. None of these

## 9.Manoj and Sachin 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?

A. 20th and 24th       B. 24th and 20th       C. 25th and 21st       D. 26th and 22nd

## 10.Ravi is 7 ranks ahead of Sumit in a class of 39. If Sumit`s rank is seventeenth from the last, what is Ravi`s rank from the start?

A. 14th       B. 15th       C. 16th       D. 17th

**11.**In a class of 60, where girls are twice that of boys, Kamal ranked seventeenth from the top. If there are 9 girls ahead of Kamal, how many boys are after him in rank?

A. 3       B. 7       C. 12       D. 23       E. 32

**12.**In a row of ten boys, when Rohit was shifted by two places towards the left, he became seventh from the left end. What was his earlier position from the right end of the row?

A. First       B. Second       C. Fourth       D. Sixth

**13.**In a queue, Vijay is fourteenth from the front and Jack is seventeenth from the end, while Mary is in between Vijay and Jack. If Vijay be ahead of Jack and there be 48 persons in the queue, how many persons are there between Vijay and Marry?

A. 8       B. 7       C. 6       D. 5       E. None of these

**14.**In a row of girls, Rita and Monika occupy the ninth places from the right end and tenth place from the left end, respectively. If they interchange their places, Rita and Monika occupy seventeenth places 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       E. None of these

**15.**In a row of girls, Shilpa is eighth from the left and Reena is seventeenth from the right. If they interchange their positions, Shilpa becomes fourteenth from the left. How many girls are there in the row?

  A. 25       B. 27       C. 29       D. 32       E. None of these

**16.**In a queue of children, Kashish is fifth from the left and Mona is sixth from the right. When they interchange their places among themselves, Kashish becomes thirteenth from the left. Then, what will be Mona's position from the right?

A. 4th       B. 8th       C. 14th       D. 15th

**17.**In a row of boys, Kapil is eighth from the right and Nikunj is twelfth from the left. When Kapil and Nikunj interchange positions, Nikunj becomes twenty first from the left. Which of the following will be Kapil's position from the right?

  A. 8th       B. 17th       C. 21st       D. Cannot be determined       E. None of these

**18.**Three persons A, B and C are standing in queue. There are five persons between A and B and eight persons between B and C. If there ne 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. 27

**TIME SEQUENCE**

#### In Time Sequence questions, you are given a question based on date and time. It is required to find out either date or no. of days satisfying conditions in specific question.

## 1.Kailash remembers that his brother Deepak`s birthday falls after 20th May but before 28th May, while Geeta remembers that Deepak`s birthday falls before 22nd May but after 12th May. On what date Deepak`s birthday falls?

A. 20th May       B. 21st May       C. 22nd May       D. Cannot be determined

E. None of these

## 2.Sangeeta remembers that her father`s birthday was certainly after eighth but before thirteenth of December. Her sister Natasha remembers that their father`s birthday was definitely after ninth but before fourteenth of December. On which date of December was their father`s birthday?

A. 10th       B. 11th       C. 12th       D. Data inadequate       E. None of these

## 3.Standing on a platform, Amit told Sunita that Aligarh was more than ten kilometres but less than fifteen kilometres from there. Sunita knew that it was more than twelve but less then fourteen kilometres from there. If both of them were correct, which of the following could be the distance of Aligarh from the platform?

A. 11 km       B. 12 km       C. 13 km       D. 14 km       E. 15km

## 4.Ashish leaves his house at 20 minutes to seven in the morning, reaches Kunal`s house in 25 minutes, they finish their breakfast in another 15 minute and leave for their office which takes another 35 minutes, At what time do they leave Kunal`s houses to reach their office ?

A. 7.40 a.m.       B. 7.20 a.m.       C. 7.45 a.m.       D. 8.15 a.m.       E. 7.55 a.m.

## 5.Ajay left home for the bus stop 15 minutes earlier than usual. It takes 10 minutes to reach the stop. He reached the stop at 8.40 a.m. What time does he usually leave home for the bus stop?

#### Options:

A. 8.30 a.m.       B. 8.45 p.m.       C. 8.55 a.m.       D. Data inadequate       E. None of these

## 6.Reaching the place of meeting on Tuesday 15 minutes before 08.30 hours, Anuj found himself half an hour earlier than the man who was 40 minutes late. What was the scheduled time of the meeting?

A. 8.00 hrs       B. 8.05 hrs       C. 8.15 hrs       D. 8.45 hrs

## 7.The priest told the devotee, "The temple bell is rung at regular intervals of 45 minutes. The last bell was rung five minutes ago. The next bell is due to be rung at 7.45 a.m." At what time did the priest give this information to the devotee?

A. 7.40 a.m.       B. 7.05 a.m.       C. 7.00 a.m.       D. 6.55 a.m.       E. None of these

## 8.The train for Lucknow leaves every two and a half hours from New Delhi Railway Station. An announcement was made at the station that the train for Lucknow had left 40 minutes ago and the next train will leave at 18.00 hrs. At what time was the announcement made?

A. 15.30 hrs       B. 17.10 hrs       C. 16.00 hrs       D. 15.50 hrs       E. None of these

## 9. An application was received by inward clerk in the afternoon of the week day. Next day he forwarded it to the table of the senior clerk, who was on leave that day. The senior clerk next day evening put up the application to the desk officer. Desk officer studied the application and disposed off the matter on the same day i.e. Friday. Which day was the application received by the inward clerk?

A. Monday       B. Tuesday       C. Wednesday       D. Earlier week`s Saturday

E. None of these

## 10.There are twenty people working in an office. The first group of five works between 8.00 A.M. and 2.00 P.M. The second group of ten works between 10.00 A.M. and 4.00 P.M. And the third group of five works between 12 noon and 6.00 P.M. There are three computers in the office which all the employees frequently use. During which of the following hours the computers are likely to be used most ?

A. 10.00 A.M. -- 12 noon       B. 12 noon -- 2.00 P.M.       C. 1.00 P.M. -- 3.00 P.M. D. 2.00 P.M. -- 4.00 P.M.

## 11.A monkey climbs 30 feet before at the beginning of each hour and rests for a while when he slips back 20 feet before he again starts climbing in the beginning of the next hour. If he begins his ascent at 8.00 a.m, at what time will he first touch a flag at 120 feet from the ground?

A. 4 p.m.       B. 5 p.m.       C. 6 p.m.       D. None of these

**Direction (Questions 12 to 14): Study the following information carefully and answer the questions given below it:**

**(I).**   Kamal is available at home from 12 noon to 4 p.m. on Tuesday, Thursday and Sunday.  
**(II).** His younger brother Navin is available at home on Monday, Thursday, Friday and Sunday between 10 a.m. to 2 p.m  
**(III).** The eldest brother Rajiv is available between 9 a.m. to 12 noon on Monday, Wednesday and Thursday and 2 p.m. to 4 p.m. on Friday, Saturday and Sunday.

**12.At a time, on which day of a week all the three brothers are available at home?**

A. None       B. Sunday       C. Thursday       D. Cannot be determined       E. None of these

**13.For how many days only one brother is available at a particular time in a week?**

A. One       B. Two       C. Three       D. Four       E. None of these

**14.On which day(s) of a week, the youngest and the eldest brothers are available at home at the same time?**

A. Only Monday

B. Only Thursday

C. Only Friday

D. Both Monday and Thursday

 E. Both Sunday and Friday

**15.**Mohini went to the movies nine day ago, She goes to the movies only on Thursday.  
What day of the week is today?

A. Thursday       B. Saturday       C. Sunday       D. Tuesday

**16.**If the day of a month is Monday, which of the following will be the fifth day from 21st of the month?

A. Monday       B. Tuesday       C. Wednesday       D. Thursday       E. None of these

**17.**1.12.91 is the first Sunday. Which is the fourth Tuesday of December 91?

A. 17.12.91       B. 24.12.91       C. 26.12.91       D. 31.12.91

**18.**If Thursday was the day after the day before yesterday five days ago, what is the least number of days ago when Sunday was three days before the day after tomorrow ?

A. Two       B. Three       C. Four       D. Five

**19.**If the 25th of August in a year in Thursday, the number of Mondays in that month is

A. 3       B. 4       C. 5       D. 6

**20.**If 1st October is Sunday, then 1st November will be:

A. Monday       B. Tuesday       C. Wednesday       D. Thursday

**21.**If 3rd December, 1990 is Sunday, what day is 3rd January, 1991?

A. Tuesday       B. Wednesday       C. Thursday       D. Friday

**22.**If February 1, 1996 is Wednesday, what day is March 3, 1996?

A. Monday       B. Sunday       C. Saturday       D. Friday

**23.**If the first day of the year (other than the leap year) was Friday, then which was the last day of that year?

A. Monday       B. Friday       C. Saturday       D. Sunday

**24.**If 18th February, 1997 falls on Tuesday then what will be the day on 18th February, 1999?

A. Monday       B. Tuesday       C. Thursday       D. Friday

**25.**How many days will there be from 26th January, 1996 to 15th May, 1996 (both days included)?

A. 110       B. 111       C. 112       D. 113       E. None of these