

Alpha-Numeric, Number, Ranking and Time Sequence Test

QUESTIONS

Direction (15) Study the following arrangement carefully and answer the questions given below: R D A K 5 B I 2 M J E N 9 7 U Z V 1 W 3 H 4 F Y 8 P 6 Y G

1.	now many such n	numbers are there in the above arrangement/ each of which is immediately preceded by a consonant
	and immediately	followed by a vowel?
	(a) None	(b) One
	(c) Two	(d) Three
2 .	Which of the follo	wing is the eighth to the left of the seventeenth element from the left end?
	(a) M	(b) J
	(c) 8	(d) 5
3 .	Three of the follow	wing four are alike in a certain way, based on their positions in the above arrangement and so form
	a group. Which is	the one that does not belong to that group?
	(a) E 9 J	(b) Z 1 U
	(c) H W 4	(d) DKR
4.	Which of the follo	wing is the sixth to the right of the nineteenth element from the right end ⁷
	(a) V	(b) Z
	(c) 5	(d) 1
5 .	How many such c	onsonants are there in the above arrangement, each of which is immediately preceded by a number
	and immediately	followed by another consonant?
	(a) None	(b) One
	(c) Two	(d) Three
Dire	ction (610): These	questions are based on the following arrangement:
	JY	$2 = S \pounds \xi EGM \times 7 \$ HP9KL\beta @WQ13 \#CD ©$
6.	How many such	symbols are there in the above arrangement each of which is either immediately followed by a
		liately preceded by a letter, but not both?
	(a) Nil	(b) One
	(c) Three	(d) Four
7 .	, ,	etters are there in the above arrangement each of which is either immediately followed by a number
		receded by a symbol, but not both?
	(a) Four	(b) Five
	(c) Six	(d) Eight
8.	, ,	numbers are there each of which is either immediately followed by a symbol or immediately
	preceded by a lett	
	(a) One	(b) Three
	(c) Four	(d) Five
9.	` '	ving four are alike in a certain way based on the position of the elements in the above arrangement
		group. Which one does not belong to the group?
	(a) 2 YS	(b) G E ¤
	(c) PHK	(d) K1 @
10.		in the same way as P H K is to
	(a) W Q β	(b) @ W L
	(c) @ β Q	(d) @ W K
	$(c) \otimes p \vee$	(u) w w n

Direction	(11-12);	Answer	the	following	questions	referring	to	the	symbol/letter/number	sequence	given
helow:											

9 4 V ? 3 K Q @ 8 M U * 2 D J \$ 7 Z B £ V D P I G X 5 A L O R

11.		bols in the sequence are either immediately followed by a letter belonging to the first half of the or by a number?
	(a) Two	(b) Three
	(c) Four	(d) Five
12 .	, ,	number of the numbers immediately followed by a letter and the symbols immediately preceded by
12.		
		in the given sequence?
	(a) 6	(b) 7 (d) Above 9
	(c) 9	(d) Above 9
Direc	tion (13-16): Stu	dy the following arrangement carefully and answer the questions given below:
	P 1 % T R A 5	# D M 7 K * E G 2 8 \$ H 3 1 4 V U 6 F + 9 Z
13 .	How many symb	ools are there in the above arrangement, each of which is immediately preceded by a consonant and
	also immediately	followed by a consonant?
	(a) None	(b) One
	(c) Two	(d) Four
14.	How many such	vowels are there in the above arrangement, each of which is immediately preceded by a digit and
	immediately follo	owed by a consonant?
	(a) None	(b) One
	(c) Two	(d) Five
15 .	Which of the foll	owing is exactly in the middle of the fifth element from the left end and the seventh element from
	the right end?	
	(a) G	(b) 2
	(c) *	(d) E
16 .	If the position of	the last twelve elements in the above arrangement are reversed, then which of the following will be
	the tenth elemen	t to the right of the eleventh from the left end?
	(a) H	(b) I
	(c) F	(d) 9
Direc	tion (17-18): Ans	swer the questions referring to the symbol/letter/number sequence given below:
		2 P J @ 8 \$ L B 1 V # Q 6 \$ G W 9 K C D 3 © • £ 5 F R 7 A Y 4
17 .	How many such	symbols are there in the sequence which are either immediately preceded or immediately followed
	by the letter which	ch is from the first half of the English alphabet?
	(a) 6	(b) 7
	(c) 8	(d) 3
18 .	P @ L is to Y75	in the same way as $$1 \# is to_{\underline{}}$.
	(a) R £ ©	(b) F £ 3
	(c) 5 £ ©	(d) F • 3
Direc	tion (19-21): Stu	dy the following digit-letter-symbol sequence carefully and answer the questions giver
belov	v:	

Which of the following is sixth to the right of eighteenth element from the left end?

(b) C (D) E

19.

(a) %

(c) 1

	* R J : F 6 @ , L	J\$:Q@E,D\$M:?							
	(a) # M C	(b) PEW							
	(c) P? +	(d) PER							
22 .	How many 5's are	there in the following sequence such that the sum of the two immediately following digits is greater							
	than the sum of the two immediately preceding digits?								
	376583245	554879153487598764							
	(a) One	(b) Two							
	(c) Three	(d) Four							
23.	How many such 9's are there in the following number series, which are immediately preceded by 3 and followed by 6?								
	396939393	396363956956939639							
	(a) Nil	(b) 2							
	(c) 3	(d) 4							
24 .	If the following nu	mbers are written in descending order, then what will be the middle digit of the middle term?							
	_	659, 713, 785, 689							
	(a) 1	(b) 7							
	(c) 8	(d) 3							
25 .	· ·	stion is based on the five three-digit numbers given below.							
	394, 632, 783, 576, 895								
	If the positions of the first and the second digit within each number are interchanged, then which of the following will								
	be the second highest number?								
	(a) 632	(b) 783							
	(c) 876	(d) 394							
0.6									
26 .	_	there in the following series/ which are not preceded by an odd number but followed by 4?							
		3 4 7 8 3 4 9 2 3 4 5 6 3 4 3 5 3 4							
	(a) None	(b) Two							
	(c) Four	(d) One							
27 .		7^{th} in the class from top. Preksha is 7 ranks ahead of Bhavna in the class. Preksha's rank from the							
		any students are there in the class?							
	(a) 55	(b) 63							
	(c) 43	(d) 56							
28 .		from the top and Ravi is ranked $14^{\rm th}$ from the bottom in a class of 35 students. How many students							
	are there between								
	(a) 10	(b) 9							
	(c)6	(d)7							
29 .	In a class among t	he passed students/ Neeta is 22^{nd} from the top. Kalpana who is 5 ranks below Neeta who is 34^{th}							
	from the bottom. All the students from the class appeared for an examination. If the ratio of the students who passed								
	in the examination to those who failed is 5:1 for the class, then how many students were there in the class?								
	(a) 66	(b) 60							
	(c) 75	(d) 90							

If the first fifteen elements in the above sequence are written in reverse order then which of the following will be

What should come in place of question mark in the following on the basis of above sequence?

20.

21.

(a) 2 (c) =

twenty-first from the right end?

(d) D

30 .		that his brother's birthday is after 15th but before 18th of May, while his sister remembers that her						
		s after 16 th but before 19 th of May. On which date in May is Samrat's brother's birthday?						
	(a) 16 th	(b) 18 th						
	(c) 19 th	(d) 17 th						
31.		r the bus stop 15 minutes earlier than the usual time. It takes 10 minutes to reach the stop. He						
	-	t 8:40 a.m. What time does he usually leave home for the bus stop?						
	(a) 8:30 a.m.	(b) 8:45 p.m.						
	(c) 8:55 a.m.	(d) 8:45 a.m.						
32 .		ace of meeting 15 minutes before $08:30$ hours, Pawan found himself half an hour earlier than the						
		ninutes 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						
33 .		ar, 16th June was friday, then the first friday in July of that year will fall on which date?						
	(a) 8 th July	(b) 5 th July						
	(c) 7 th July	(d) 6 th July						
34 .		beople working in an office. The first group of five works between $8:00$ a.m. and $2:00$ p.m. The						
	- -	n 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. The	re 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	(a) 10:00 a.m 12 noon						
	(b) 1:00 p.m - 3:00	(b) 1:00 p.m - 3:00 p.m.						
	(c) 12 noon - 2:00	(c) 12 noon - 2:00 p.m.						
	(d) 2:00 p.m 4:0	•						
35 .	How many days w	ill there be from 26th January 2004 to 15th May 2004 (both days included)?						
	(a) 110	(b) 111						
	(c) 112	(d) 113						
36 .	If the second day	of a month is a Saturday, then which of the following would be the last day of the next month						
	which has 31 days	?						
	(a) Sunday	(b) Monday						
	(c) Friday	(d) Data inadequate						
37 .	Vikas remembers t	hat his father's birthday is between $13^{ ext{th}}$ and $16^{ ext{th}}$ of June/ whereas his sister remembers that their						
	father's birthday is	between 14th and 18th of June. On which day is their father's birthday?						
	(a) 14 th June	(b) 15 th June						
	(c) 17 th June	(d) 18 th June						
38 .	If the letters of the g	iven below series are written in reverse order, then which letter will &e third to the left of eighteenth						
	letter from the right end? (SOF NCO 2016)							
	IXYANOFM	PBLQRDSTWCKGUVEJZ						
	(a) O	(b) U						
	(c) V	(d) S						
39 .	in the following qu	uestion, two rows of numbers are given. The resultant number in each row is to be worked out						
	separately based on the following rules and the question below the rows of numbers is to be answered. The							
	operations of numbers progress from left to right.							
	Rules:							
		dd number is followed by a two-digit odd number they are to be added						
	, ,	ven number is followed by a two-digit odd number which Is a perfect square, the even number is						

(iii) If a three-digit number is followed by a two-digit number the first number is to be divided by the second number.

to be subtracted from the odd number,

(iv) If a prime number is followed by an even number the two are to be added,

(v) If an even number is followed by another even number the two are to be multiplied.

16 8 32 132 11 X² If X is the resultant of the first row, then what is the resultant of the second row? (SOF NCO 2016) (a) 192 (b) 128 (d) 144 (c) 132 Two rows of numbers are given. The resultant number in each row is to be worked out separately based on the following rules and the question below the rows of numbers is to be answered. The operations on numbers progress from left to right. Rules: (i) If an odd number is followed by another composite odd number, they are to be multiplied. (ii) If an even number is followed by an odd number, they are to be added. (iii) If an even number is followed by a number which is a perfect square, then even number is to be subtracted from the perfect square. (iv) If an odd number is followed by a prime odd number, the first number is to be divided by the second number. (v) If an odd number is followed by an even number, the second one is to be subtracted from the first one. 10 15 5 14 11 p If p is the resultant of the first row, what will be the resultant of the second row? (SOF NSO 2016) (a) 6 (b) 81 (c) 5(d) 24 How many such 5's are there in the given below arrangement each of which is immediately preceded as well as followed by an even digit? 992325958585431817476521261324624 (a) None (b) One (c) Two (d) Three How many such 1's are there in the given arrangement, each of which is immediately preceded by a perfect square? 641252852641391812586135149473217259 (a) None (b) One (c) Two (d) Three This question is based on the six numbers given below:

271361912714459187

40.

41.

42.

43.

If the first and the second digits of each number are interchanged and if the third digit of each number is placed between these two digits, then which number will be the third number from the top, if the new numbers are arranged in the descending order?

(SOF IMO 2016)

(a) 187 (b) 271 (c) 459 (d) 361

44. Which of the following is the twelfth to the left of the twenty-first from the left end in the given arrangement?

(SOF IMO 2016)

B 4 @ D A © 7 9 F % 2 R 5 H 6 E * N \$ 1 U W 3 P T 8 6 V # Y I

(a) R (b) 1 (c) 5 (d) F

45. If first 6 letters of the English alphabet are written in reverse order then next 6 letters are written in reverse order and so on but the last two letters Y and Z are interchanged, then which will be the 4th letter to the left of the 13th letter from the right? (SOF NCO 2017)

 $\begin{array}{ccc} \text{(a) J} & \text{(b) H} \\ \text{(c) I} & \text{(d) O} \end{array}$

	(c) Four	(d) Three							
47 .	How many 2's a	are there in the given arrange	ment/eac	ch of v	vhich	Is not Immediately preceded by a perfect square			
	and followed by an odd number? (SOF NSO 2017)								
	6425282	92138621258612	425						
	(a) 4	(b) 3							
	(c) 2	(d) 5							
48 .	Consider the fol	lowing letter/number/symbol a	ırrangem	ent ar	ıd ans	swer the question that follows:			
						(SOF IMO 2017)			
	@ C F S 9 W	A * X 6 9 Q J % H 8 U N 1	2 T #	4 5 7	K				
	What should co	me in the place of the question	n mark (S	?) in th	e follo	owing series based on the above arrangement?			
	* 6 Q 9 J H %	8 N U 1 T?							
	(a) N	(b) 4							
	(c) 2	(d) None of these							
49 .	Two rows of nu	ımbers are given. The resulta	nt numb	er in e	each r	row is to be worked out separately based on the			
	following rules a	following rules and the question below the rows of numbers Is to be answered. The operations on numbers progress							
	from left to right	t.							
	Rules:								
	(i) If a two digit odd number is followed by a prime number the first number is to be multiplied by the prime number								
	(ii) If an even number is followed by another even number, the first number is to be divided by the second number.								
	• •	•				first number is to be added to the second number.			
				ved by	anot	ther number which is a multiple of 5, the second			
		o be subtracted from the first r							
					numl	ber which is a perfect square, the resultant number			
	is the produ	ict of the square roots of the tv	vo numb			(SOF IMO 2017)			
			21	9	15				
			81	25	5				
	What is the sum	of the resultants of the two ro	ws?						
	(a) 240	(b) 270							
	(c) 280	(d) None of these							
50 .		, ,	ranged i	n asce	ndino	order of height. Five new students join the group/			
	all taller than Rita. What will be Rita's position if the students are now arranged in descending order of their heights?								
		r				(SOF IMO 2017)			
	(a) 22 nd	(b) 23 rd				,			
	(c)18 th	(d) None of these							
	• •	· <i>,</i>							

How many symbols are there in the given series which are preceded by a consonant and followed by an odd number?

RT@45LS#2UV3£01NP*3\$VEJ5QR©6 (b) Two

(SOF NCO 2017)

46.

(a) One

ANSWER - KEY									
1.	А	2.	Α	3.	С	4.	А	5.	D
6.	С	7.	D	8.	С	9.	D	10.	В
11.	С	12.	D	13.	Α	14.	Α	15.	D
16.	С	17.	D	18.	D	19.	D	20.	Α
21.	В	22.	С	23.	С	24.	А	25.	D
26.	С	27.	А	28.	А	29.	Α	30.	D
31.	D	32.	В	33.	С	34.	С	35.	В
36.	D	37.	В	38.	В	39.	А	40.	С
41.	D	42.	D	43.	D	44.	D	45.	С
46.	Α	47.	С	48.	С	49.	A	50.	В

EXPLANATIONS

- **2.** (a) : 17^{th} element from the left end is V and 8^{th} element to the left of V is M.
- 3. (c): Except (c), in all the groups, the 1^{st} element moves 2 steps ahead to give the 2^{nd} element, the 2^{nd} element moves 3 steps backwards to give the 3^{rd} element.
- **4.** (a): 19^{th} element from the right end is E and 6^{th} element to the right of E is V.
- **5.** (d): According to given statement, we have

 $RDAK5BI2\overline{M}JEN97UZV1W3H4\overline{F}Y8P6\overline{T}G$

- **6.** (c): $JY 2 = S \ \pounds \xi E G M \mathfrak{A} 7 \$ H P 9 K L \beta @ W Q 1 3 # C D ©$
- 7. (d): $JY2 = S \pounds \xi E G M \Phi 7 \$ H P 9 K L \beta @ W Q 1 3 \# C D ©$
- **8.** (c): $J Y 2 = S \pounds \xi E G M \Phi [7] \$ H P [9] K L \beta @W Q[1] [3] # C D @$
- 10. (b):

- 11. (c): 9 4 V ? 3 K Q@8 M U *2DJ\$ 7 Z B £ V D P I G X 5 A L O R
- **12.** (d): 9 4 V ? 3 K Q @ 8 M U * 2 D J\$ 7 Z Β ξ V D P I G X 5 A L O R
- **15.** (d): $P \, 1 \, \% \, T \, \mathbb{R} \, A \, 5 \, \# \, D \, M \, 7 \, K \, * \, \boxed{E} \, G \, 2 \, 8 \, \$ \, H \, 3 \, 1 \, 4 \, \boxed{V} \, U \, 6 \, F \oplus 9 \, Z$

5th element from the left end is R and 7th element from the right end is V. So, E is exactly in the middle of R and V.

- **16.** (c): The new arrangement is:

 - 11th element from the left end is 7 and 10th element to the right of 7 is F.
- 17. (d); 2PJ @ 8 \$ $LB1V \# Q6 \delta GW9KCD3 \odot \bullet £5FR7AY4$
- **18.** (d): In the pair, the corresponding elements of both the terms occupy the same position from the left end and right end of the given sequence.
- **19.** (d) The 18^{th} element from the left end is 1. So, the 6^{th} element to the right of 1 is E.
- **20.** (a) The new sequence is:

B % C 8 # M = D \$ 2 L J T * R < K 1 & A W ? P E + Q @ 7 F 6

So, the 21st element from the right end of this arrangement is 2.

- **21.** (b): In each pairs, the corresponding elements of both the terms occupy the same position from the left and right end of the given sequence.
- **22.** (c): 37658324554879153487598764
- **23.** (c); 39 6 9 3 9 3 9 63 6 3 9 5 6 9 5 6 9 3 9 6 3 9.
- **24.** (a): Numbers in descending order are

789, 785, 723, 713, 689, 659, 585

Here middle term is 713 and 1 is middle digit in 713.

25. (d):

394 632 783 576 895

934 362 873 756 985

26. (c): 15323465347834923456343534

- (a) : Rank of Bhavna = 27^{th} (from top) **27**.
 - Rank of Preksha = 20^{th} (from top)
 - Rank of Preksha = 36^{th} (from bottom)
 - Total students = 20 + 36 1 = 55.
- **28**. (a): Students between Amit and Ravi = 35 - (10 + Amit + 13 + Ravi) = 10,
- (a): We have. Rank of Neeta = 22^{nd} (from the top) 29.
 - Rank of Kalpna = 27^{th} (from the top)
 - And also rank of Neeta = 34^{th} (from the bottom)
 - Clearly, total passed student = 22 + 34 1 = 55
 - Now, Pass: Fail =5:1
 - or, 55 : Fail = 5:1
 - or. Fail students = $\frac{55}{5} \times 1 = 11$
 - So, total students in the class = 55 + 11 = 66.
- **30**. (d): According to Samrat, his brother's birthday is on one of the days among 16th and 17th of May. And according to his sister, her brother's birthday is on one of the days among 17th and 18th of May.
 - So, their brother's birthday is on the day common to both the above statements which is 17th of May.
- 31. (d): Parth's usual time to leave home = 8:40 a.m. -10 mins +15 mins = = 8:45 a.m.
- **32**. (b): Pawan reached the place at 8:15 hrs. Pawan is half an hour earlier to the man who was 40 minutes late. Hence, the other man reached at 8:15 hours + 30 mins = 8:45 hrs. Clearly, the scheduled time of the meeting was 40 minutes before 8:45 hrs, i.e., 8:05 hrs.
- **33**. (c): 16th June falls on Friday.
 - So, 23rd June, 30th June and 7th July also falls on Friday.
- **34**. (c): We have three time periods
 - (i) 8:00 a.m. 2:00 p.m.
 - \Rightarrow 8, 9, 10, 11, (12), (1)

 - (ii) 10:00 a.m. -4:00 p.m. \Rightarrow 10, 11, (12), (1), (2), 3, 4
 - (iii) 12 noon—6:00 p.m
 - (1),(2),3,4,5,6

From (i), (ii) and (iii), we see only three time digits 12, 1 and 2 are common to all of them. It means the common time period is 12 noon to 2 p.m.

- **35**. (b): Here, 2004 is a leap year. So, February has 29 days.
 - Now, number of days =6+29+31+30+15=111.
- **36**. (d): The number of days in the current month is not mentioned.
- **37**. (b): According to Vikas, his father's birthday is on one of the days among 14th and 15th of June.

And according to his sister, her father's birthday is on one of the days among 15th, 16th and 17th of June. So, their father's birthday is on the day common to both the above statements, which is 15th June.