# How many persons are sitting in between... 



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## MODEL QUESTIONS

Directions(Q.No.1-5): Study the following information carefully and answer the questions given below:

Sixteen chairs are arranged in two concentric circular tables facing the centre. $\mathrm{A}, \mathrm{B}, \mathrm{K}, \mathrm{N}, \mathrm{V}$ and W are sitting at the inner table, i.e. two chairs are vacant. $\mathrm{E}, \mathrm{L}, \mathrm{O}, \mathrm{P}, \mathrm{R}, \mathrm{S}, \mathrm{T}$ and Y are sitting at the outer table.The persons of the outer table are sitting exactly behind the ones sitting at the inner table.

B is sitting on the second chair to the left of W. S is sitting behind A. N is sitting on the chair to the immediate left of $\mathrm{V} . \mathrm{P}$ is sitting second to the right of $\mathrm{E} . \mathrm{Y}$ is sitting third to the left of R . T is sitting opposite to K but not immediately behind him. L is sitting to the immediate right of $\mathrm{O} . \mathrm{P}$ is not a neighbour of Y. B is not sitting on the chair next to V . N is not sitting opposite to A or in front of T. The chair immediately in front of $E$ is vacant. N is not the neighbour of K .

1. Which of the following chairs is vacant?
a) The one immediately in front of O .
b) The one immediately in front of $T$
c) The one immediately in front of $R$
d) The one immediately in front of $P$
e) The one immediately in front of Y
2. How many persons are sitting in between $S$ and $E$, to the left of $S$ ?
a) None b) One c) Two d) Three e) More than three
3. Who is sitting second to the right of the person sitting immediately in front of P ?
a) A b) W
d) V
e) Nobod
4. How many persons are sitting in between W and V , to the left of V ? a) None b) One c) Two d) Three e) More than three
5. Who among the following sits opposite to the P in the outer circle?
a) O
b) Y
c) T
d) E e) None of these

Directions (Q.No.6-8): Each of the questions given below consists of a question and two statements numbered I and II. You have to decide whether the data provided in the statements are sufficient to answer the question.
a) If the data in statement $I$ alone is sufficient to answer the question.
b) If the data in statement II alone is sufficient to answer the question.
c) If the data either in statement I alone or statement II alone are sufficient to answer the question.
d) If the data given in both I and II together are not sufficient to answer the question.
e) If the data in both the statements I and II together are necessary to answer the question.
6. Among A, B, O, P and Q, who is third from the top when arranged in descending order of their weights?
I) O is heavier than A and Q and is less heavier than $B$ who is not the heaviest
II) Q is heavier than only A

7. How many children are sitting between A and B ?
I) A is 5th to the right of O and $6^{\text {th }}$ to the left of $P$. B is 6th to the right of O .
II) In a row of 25 students, A is 5th from left end and B is 20th from the right end.
8. How is F related to M ?
I) $R$ is daughter of $M$ and also mother of $F$.
II) Q is brother of R and T is the wife of $F$.
Directions (Q.No.9-10):In each question below is given a statement followed by two courses of actions numbered I and II. A course of action is taken for improvement follow up at etc. Read the statement carefully and pick the correct answer choice.
a) If only course of action I follows
b) If only course of action II follows
c) If either course of action I or II follows
d) If neither course of action I nor II follows
e) If both courses of action I and II follow
9. Statement: Majority of students have failed in the final examination in KV University. Courses of Action:
I) The faculty should be immediately retrenched.
II) The university should be closed down temporarily.
10. Statement: If faculty members also join the strike, there is going to be a serious problem.
Courses of Action:
I) The faculty members should be persuaded not to go on strike.
II) Those faculty members who joined the strike should be suspended.
Directions (Q.No.11-15): Study the following information carefully and answer the questions given below:

Ten students names Mohan, Pavani, Kalyan, John, Dinesh, Praveen, Bharathi, Vardhan and Kishan from a banking coaching institute but not necessarily in the same order have an exam on five different days starting from Monday to Friday of the same week. Students have an exam in two different time slots of 9:30 AM and 1:30 PM Vardhan had an exam on Tuesday at 09:30AM. The number of people who have exam between Praveen and John is same as the number of people who have exam between Kalyan and Bharathi. Pavani's exam is immediately before Vardhan. Vardhan does not have an exam on the same day or any of the days before Praveen. There is one student who has an exam at 09:30 AM immediately before Kishan. Bharathi does not have any exam at 01:30 PM. John does not have an exam on any of the days after Suresh. Only three people have exam between Praveen and Suresh. Neither Praveen nor Suresh have an exam on Friday. Only 2 people have exam between Dinesh and Kishan. Dinesh does not have an exam on any of the


From either statement I or II, we can conclude that there are no one between A and B.

9) $d$; 10$) a$;
(11-15)

| Day | Time | Student |
| :--- | :--- | :--- |
| Monday | $9: 30 \mathrm{AM}$ | Praveen |
|  | $1: 30 \mathrm{PM}$ | Pavani |
| Tuesday | $9: 30 \mathrm{AM}$ | Vardhan |
|  | $1: 30 \mathrm{PM}$ | John |
| Wednesday | $9: 30 \mathrm{AM}$ | Suresh |
|  | $1: 30 \mathrm{PM}$ | Kalyan |
| Thursday | $9: 30 \mathrm{AM}$ | Dinesh |
|  | $1: 30 \mathrm{PM}$ | Mohan |
| Friday | $9: 30 \mathrm{AM}$ | Bharathi |
|  | $1: 30 \mathrm{PM}$ | Kishan |

11) $\mathbf{a}$; 12) $\mathbf{e}$; 13) $\mathbf{b}$; 14) $\mathbf{d}$; 15) $\mathbf{a}$; 16) c;

If all the digits are reversed we get
613, 478, 206, 842, 692, 635.
$4^{\text {th }}$ least number is $635 \Rightarrow 6^{2}+3^{2}+5^{2}=70$
17) a;

If all the numbers are arranged in ascending order
248, 296, 316, 536, 602, 874
Sum of 1 st digit of first 2 numbers, $2^{\text {nd }}$ digit of next numbers and third digit of last two numbers.

$$
2+2+1+3+2+4=14
$$

18) e;

If all the numbers are halved, we get
$158,437,301,124,148,268$
124 is the lowest number.
19) $\mathbf{c}$;

If $1^{\text {st }}$ and $2^{\text {nd }}, 3^{\text {rd }}$ and $4^{\text {th }}$ and $5^{\text {th }}$ and $6^{\text {th }}$ are interchanged we get
874, 316, 248, 602, 536, 296
The sum of first digit of first two numbers, second digit of next two numbers and third digit of last two numbers is $8+3+4+0+$ $6+6=27$
20) d; If $1^{\text {st }}$ digit of all the numbers is decreased by 1 we get,
$216,774,502,148,196,436$
The sum of highest and lowest number is $774+148=922$
days after Bharathi.
11. Which group of people has exam slot at 9:30 AM?
a) Praveen, Vardhan, Suresh, Dinesh, Bharathi
b) Praveen, Vardhan, Mohan, Dinesh, Bharathi
c) Praveen, Vardhan, Suresh,

Dinesh, Kishan
d) Either (a) or (b)
e) None of these
12. How many people have exam between Mohan and Vardhan? $\begin{array}{lll}\text { a) } 1 & \text { b) } 2 & \text { c) } 3\end{array}$ d) Can't be determined
e) None of these
13. What is the time and day for the exam of Mohan?
a) Thursday - 9:30 AM
b) Thursday $-1: 30 \mathrm{PM}$
c) Friday - 9: 30 AM
d) Friday - 1: 30 PM
e) None of these
14. Which of the following statements is definitely false? a) Vardhan's exam on Tuesday b) John's exam on Tuesday c) Bharathi's exam on Friday d) Dinesh's exam on Monday e) All are true
15. Whose exam is on Friday?
a) Bharathi and Kishan
b) Mohan and Dinesh
c) Bharathi and Mohan
d) Either b or c
e) None of these

Directions(Q.No.16-20): Study the
following information carefully and answer the questions given below:

There are six 3-digit number given below.
$\begin{array}{llllll}316 & 874 & 602 & 248 & 296 & 536\end{array}$
16. If all the digits are reversed in all the numbers, then the sum of squares of all the digits of fourth least number is?
$\begin{array}{ll}\text { a) } 129 & \text { b) } 46\end{array}$
c) 70
$\begin{array}{ll}\text { d) } 38 & \text { e) } 84\end{array}$
17. What is the sum of first digit of first two numbers, second digit of next two numbers and third digit of last two numbers, if all the numbers are arranged in ascending order?
$\begin{array}{ll}\text { a) } 14 & \text { b) } 16\end{array}$
c) 18
$\begin{array}{ll}\text { d) } 20 & \text { e) } 21\end{array}$
18. If all the numbers are halved, then the lowest number is?
a) 158
b) 148
c) 142
d) 136
e) 124
19. If first and second, third and fourth and fifth and sixth numbers interchange their positions, what is the sum of first digit of first two numbers, second digit of next two numbers and third digit of last two numbers?
$\begin{array}{ll}\text { a) } 42 & \text { b) } 36\end{array}$
c) 27
$\begin{array}{ll}\text { d) } 26 & \text { e) } 47\end{array}$
20. If first digit of all the numbers is decreased by one, then the sum of highest and lowest number is? $\begin{array}{lll}\text { a) } 822 & \text { b) } 1032 & \text { c) } 821\end{array}$
d) 922
e) 932

