Directions for Questions 1 to 5 : Answer the questions based on the following information.

1. A, B, C, D, E, F and G are sitting on a bench and all of them are facing East.
2. C is to the immediate right of D, but not next to F.
3. B is at the extreme end and has E as his neighbor.
4. G is between E and F.
5. D is sitting third from the South end.

Explanation :

From (i) : A, B, C, D, E, F, G are sitting on a bench and all of them are facing East.

\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_\_ \_ \_ \_ \_ East

From (ii) : D C

From (iii) : B E \_ \_ \_ \_ \_ \_ \_ \_

OR

\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ E B

From (iv) : E G F or F G E

East

From (v) : \_ \_ \_ \_ D \_ \_ South

Let us start with the arrangement obtained from condition (V).

\_ \_ \_ \_ D \_ \_ East

1 2 3 4 5 6 7

Now, from (ii), we get that C will occupy seat 6. From (iii). B and E will occupy seats 1 and 2, respectively. From (iv), G and F will occupy 3 and 4 and finally the last seat 7 will be occupied by the remaining person A. From the above reasoning, we get the following final arrangement.

B E G F D C A East

1. Who is sitting to the right of E ?
2. A
3. C
4. D
5. None of these

Explanation :

G is sitting to the right of E.

1. Which of the following pairs is sitting at the extreme ends ?
2. A, B
3. A, E
4. C, B
5. F, B

Explanation :

A and B are sitting at the extreme ends.

1. The person sitting third from the North end is \_\_\_\_\_\_
2. E
3. F
4. G
5. D

Explanation :

G is sitting 3rd from the North end.

1. Between which of the following pairs is D sitting ?
2. A, C
3. A, F
4. C, E
5. C, F

Explanation :

D is sitting between C and F.

1. Which of the conditions from I to V given above is not required to find out the place where A is sitting ?
2. I
3. II
4. III
5. All are required.

Explanation :

All are required.

Directions for Questions 6 to 10 : Read the given information carefully and answer the questions given below:

Six persons A, B, C, D, E and F are sitting around a circular table facing the centre.

1. C is sitting exactly between A and F.
2. B is sitting places to the left of E.
3. D is sitting two places to the right of F.

Explanation :

Start with any fixed position. Statement I does not give any fixed position since the order could be A\_ C \_ F or F \_ C \_ A. Starting with ii, we will have the positions of B and E. Now, C has to be in between A and F n such an order that D is two places to the right of F. The order in the clockwise direction has to be F \_ C \_ A, else A will fall 2 places to the right of F.

Thus, we have the arrangement as shown below.

B

D F

E C

A

1. Between which two persons is D sitting ?
2. F \_ B
3. E \_ B
4. C \_ B
5. A \_ B

Explanation :

D is sitting between E and B.

1. Who is sitting opposite A ?
2. F
3. C
4. E
5. None of these

Explanation ;

B is sitting opposite A.

1. Which of the following is A’s neighbor to his right ?
2. C
3. F
4. B
5. D

Explanation :

C is to the immediate right of A.

1. Who is sitting opposite E ?
2. A
3. B
4. C
5. F

Explanation :

F is sitting opposite E.

1. Between which of the two persons is F sitting ?
2. C \_ D
3. C \_ A
4. D \_ A
5. C \_ B

Explanation :

F is sitting between C and B.

Directions for questions 11 to 14 : Read the following information carefully and answer the questions given below :

1. Seven meetings \_ A, B, C, D, E, F, and G are to be scheduled, one on each day of a week that begins on Monday.
2. Meeting A must take place on Monday and meeting B on the last day.
3. Meeting B immediately takes places after meeting C which is scheduled immediately after Meeting D.
4. Meeting E, F and G must take place on three consecutive days, in that order.

Explanation :

The given information can be summarized as follows :

Days Meetings

1. \_ Monday \_ A …. From statements (i) and (ii)
2. \_Tuesday \_ E
3. \_ Wednesday \_ F …..From the statement (iv)
4. \_ Thursday \_ G
5. \_ Friday \_ D …. From statement (iii)
6. \_ Saturday \_\_C
7. \_Sunday \_\_\_ B … from statements (i) and (iii)
8. Which is the earliest day of the week on which meeting C can take place ?
9. Wednesday
10. Thursday
11. Friday
12. Saturday

Explanation :

\_\_ Saturday

1. Which of the following must be true about the order of meetings ?
2. C takes place immediately after A.
3. C takes place immediately after F.
4. E takes place immediately after A.
5. E takes place immediately after G.

Explanation :

\_\_ E takes place immediately after A.

1. If meeting A is on Wednesday, which is the first day that meeting B must take place on ?
2. Tuesday
3. Wednesday
4. Thursday
5. Friday

Explanation :

\_\_ From statement (ii), we know that meeting A takes place on Monday i.e., the first day, and B takes place on the last day i.e. Sunday. If the first day changes from Monday to Wednesday, then the last day becomes Tuesday.

1. Which of the following represents a Possible order of meetings on three consecutive days ?
2. ADB
3. BCF
4. DEA
5. AEF

Explanation :

\_ AEF, as can be observed from the arrangement.

Directions for Questions 15 and 16 : These questions are based on the following information.

Five friends- Hemant, Ram, Krishna, Pramod and Mahesh participated in a race. Ram finished the race before Krishna but after Hemant. Hemant finished the race before Mahesh and Pramod. Pramod finished the race after Krishna but before Mahesh.

Explanation:

Ram finished the race before Krishna but after Hemant who finished the race before Mahesh and pramod means Hemant must finished the race first. Pramod finished the race after Krishna but before Mahesh.

So, the order we get in ranks is as follows.

Hemant Ram Krishna Pramod Mahesh

1 2 3 4 5

1. Who finished the race in the fourth position ?
2. Krishna
3. Mahesh
4. Pramod
5. Ram

Explanation :

Pramod finished the race in the fourth position.

1. Who was the first person to finish the race ?
2. Hemant
3. Pramod
4. Ram
5. Mahesh

Explanation :

Hemant finished the race first.

Directions for questions 17 to 21 : Read the following information carefully and answer the questions given below :

1. Five gentlemen (Mr. Ajay, Mr. Bijay, Mr. Vinay, Mr Sanjay and Mr. Akshay) are practicing five different professions (Engineering, Medical, Law, Charted Accountancy and Architecture). Each one can play only one of the five different instruments: Tabla, Violin, Sarod, Sitar and Flute.
2. Mr Ajay is a Doctor and can play Sarod.
3. The Sitarist is not an Engineer.
4. Mr Vinay and Mr Bijay are not Architects and Vinay cannot play Tabla.
5. Mr. Bijay can play Violin.
6. Mr Akshay is a Lawyer and can play Flute.

Explanation :

Let us represent the three groups in a table. By taking the group of gentlemen as the base, because most of the information given is with regard to the gentlemen, we will try filling in the other details/elements of the other two groups in the table, as shown below.

From II, we get the combination Ajay \_ Doctor\_ Sarod.

From III, we get to know that Sitar Engineer.

From iv, (Vinay, Bijay) Architects and Vinay Tabla.

From V, Bijay = Violin.

From Vi, we get the combination Akshay \_ Lawyer \_ Flute.

Putting the above details in the tables as shown below.

|  |  |  |
| --- | --- | --- |
| Gentlemen | Profession | Instrument |
| Ajay | Doctor | Sarod |
| Bijay | Architect | Violin |
| Vinay | Architect | Tabla |
| Sanjay |  |  |
| Akshay | Lawyer | Flute |

Now, here we observe that neither Bijay nor Vinay is the Architect, hence the remaining person Sanjay the Architect, hence the remaining person Sanjay is the Architect. Similarly, Sanjay plays Table and hence Vinay plays Sitar. This means that Bijay is the Engineer (from iii) and Vinay is the CA.

We get the final arrangement as shown below :

|  |  |  |
| --- | --- | --- |
| Gentlemen | Profession | Instrument |
| Ajay | Doctor | Sarod |
| Bijay | Engineer | Violin |
| Vinay | CA | Sitar |
| Sanjay | Architect | Tabla |
| Akshay | Lawyer | Flute |

Now, based on the above table, let us answer the questions.

1. Which instrument does Mr. Vinay Play ?
2. Sarod
3. Sitar
4. Violin
5. Flute

Explanation :

Mr. Vinay plays Sitar.

1. What is the profession of Mr. Bijay ?
2. Architect
3. Doctor
4. Lawyer
5. Engineer

Explanation :

Mr. Bijay is the Engineer.

1. Who is an Architect ?
2. Mr. Ajay
3. Mr. Akshay
4. Mr. Bijay
5. Mr. Sanjay

Explanation :

Mr. Ajay is the Architect.

1. What is the profession of Mr. Vinay ?
2. Doctor
3. Engineer
4. Lawyer
5. CA

Explanation :

Mr. Vinay is the CA.

1. Which instrument can the Doctor learn from the Architect ?
2. Flute
3. Sitar
4. Tabla
5. Sarod

Explanation :

The Doctor can learn Tabla from the Architect

1. Among five boys, Vasant is taller than Manohar, but not as tall as Raju. Jayant is taller than Dutta, But shorter than Manohar. Who is the tallest in the group ?
2. Raju
3. Manohar
4. Vasant
5. Can’t be determined

Explanation :

Arranging the given information, we get Raju > Vasant > Manohar > Jayant > Dutta So, Raju is the tallest.

1. Two teams of three members each, have to be selected from among six persons \_ P, Q, R, S, T and U, P and R cannot be in the Same team. Q and S must be in the same team, R and T cannot be in the same team. Which of the following must be one of the two teams selected ?
2. P, T and U
3. P, Q and T
4. P, S and R
5. Q. R and T

Explanation :

As p and R can not be in the same team and R and T cannot be n the same team, R must be with Q and S, Hence, the other team is P, T and U.

1. 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 6 7 6 3

1. One
2. Two
3. Three
4. Four

Explanation :

All the 6’ s that satisfy the given condition are underlined in the series.

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

So, in above series, 3 times, 6’ s are preceded by 7 but not immediately followed by 9.

1. In a class, Krishna is ranked 8th from the top and 48th from the bottom. How many students are there in his class ?
2. 56
3. 55
4. 57
5. None of these

Explanation :

Using the formula T = we get T = 8 + 48 – 1 = 55. Hence, there are 55 students in Krishna’s class.

Now, please solve questions in the exercise based on the concepts discussed.

Directions for questions 1 to 5 : Answer the questions based on the following information.

1. There are five friends.
2. They are standing I a row facing north.
3. Jayesh is to the immediate right of Alok.
4. Pramod is exactly between Bhagat and Subodh.
5. Subodh is exactly between Jayesh and Pramod.

Explanation :

From (i) and (ii) :

\_ \_ \_ \_ \_ North

1 2 3 4 5

From (iii): Alok Jayesh

From (iv) : (a) Bhagat Pramod Sobodh OR

(b) Soubodh Pramod Bhagat

From (v) : (a) Jayesh Subodh Pramod OR

(b) Pramod Subodh Jayesh

Let us start with the arrangement obtained from condition (iii). Alok Jayesh

Hence, (v) (a) can’t be possible.

From the above reasoning, we get the following final arrangement.

Alok Jayesh Subodh Pramod Bhagat

1. Who is at the extreme left end ?
2. Alok
3. Bhagat
4. Subodh
5. Jayesh

Explanation :

Alok is at the extreme ledt end.

1. Who is in the middle ?
2. Bhagat
3. Jayesh
4. Pramod
5. Subodh

Explanation :

Subodh is in the middle.

1. To find the answer to the above two questions, which of the given statements can be dispensed with ?
2. None
3. Only II
4. Only III
5. Only IV

Explanation :

All statements are necessary.

1. If five of them were to stand in a circle with the same arrangement, between which two people would Bhagat stand ?
2. Alok and Subodh
3. Jayesh and Pramod
4. Subodh and Pramod
5. Alok and Pramod

Explanation :

Bhagat stands between Alok and Pramod.

1. If a new friend Sukhdev joins the group, and is standing to the right of Bhagat, who is his other neighbor (in the original linear arrangement) ?
2. Jayesh
3. Pramod
4. Subodh
5. None of these

Explanation :

As Sukhdev stands at the extreme right end, he has only one neighbor, Bhagat.

Directions for questions 6 to 10 : study the following information carefully and answer the questions given below it.

1. Eleven students A, B, C, D, E, F, G, H, I, J and K are sitting in the first row of the class facing the teacher.
2. D, who is to the immediate left of F, is second to the right of C.
3. A is second to the right of E, who is at one of the ends.
4. J is the immediate neighbor of A and B and third to the left of G.
5. J is second to the left of I.

Explanation :

\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_

1 2 3 4 5 6 7 8 9 10 11

From (ii):

C \_\_ D E

From (iii) : E \_ A

2 3

From (iv) and (v) : (a) A j B I G OR

(b) B J A I G

Let us start with the arrangement obtained from condition (iii).

E \_ A  
1 2 3

Hence, (v) (b) can’t be possible.

From (iii), (iv) and (v) (a), we get the following arrangement.

E \_ A J B I G  
1 2 3 4 5 6 7

Now, from (i), we get that C will occupy seat 8. Hence, we will get the following arrangement.

E H/K A J B I G C K/H D F  
 1 2 3 4 5 6 7 8 9 10 11

So, H can occupy either seat 2 or seat 9.

Also, K can occupy seat 2 or seat 9.

1. Who is sitting in the middle of the row ?
2. C
3. I
4. B
5. G

Explanation :

I is sitting in the middle of the row.

1. Which of the following group of friends could be sitting to the right of G ?
2. IBJA
3. ICHDF
4. CHDF
5. CKDE

Explanation :

The group of friends sitting to the right of G could be CHDF.

1. In the above seating arrangement, which of the following statements is superfluous ?
2. I
3. II
4. III
5. None of superfluous

Explanation:

None is Superfluous.

1. Which of the following statements is TRUE in the context of the above seating arrangement ?
2. There are three students sitting between D and G.
3. G and C are neighbors sitting to the immediate right of H.
4. B is sitting between J and I.
5. K is between A and J.

Explanation :

B is sitting between J and I.

1. If E and D, C and B, A and H and K and F interchange their positions, which of the following pairs of students is sitting at the ends?
2. D and E
3. E and F
4. D and K
5. K and F

Explanation :

The new arrangement is

D F H J C J G B A E K

So, D and K are sitting at two ends.

Directions for questions 11 to 15: Read the given information carefully and answer the questions given below:

Eight persons L, M, N, P, Q, R, S and T are sitting for a round table conference facing the centre.

1. R sits between L and S.
2. S, who is the neighbor of Q, sits 3 places to the right of T.
3. Q sits 2 places to the right of T.
4. M sits 3 places to the left of R.

Explanation :

S sits 3 places to the right of T and Q, 2 places to the right of T, Fix up these positions first.

T

Q

S

Now, if R has to sit between L and S, it has to be to the right of S else Q will clash with R. We can also get the position of M relative to R. However, the positions of N and P cannot be determined for sure.

T

M N/P

Q P/N

S L

R

1. Who sits opposite M ?
2. P
3. L
4. Q
5. T

Explanation :

L sits opposite M.

1. Between which two persons is S sitting ?
2. L \_ Q
3. M \_ Q
4. R \_ Q
5. L \_ M

Explanation :

S is sitting between R and Q.

1. Who sits opposite S ?
2. N
3. P
4. T
5. Either N or P

Explanation :

Either Nor P sits opposite S.

1. Who among the following is Q’s neighbor ?
2. P
3. R
4. L
5. S

Explanation :

S is Q’s neighbor.

1. Who is L’s neighbor on his left ?
2. R
3. S
4. Q
5. T

Explanation :

R is to the left of L.

Directions for questions 16 to 20 : Answer the questions based on the following information.

B, C, D, E, F and G are to be seated at a round table. The following apply to the seating arrangement.

1. D must sit next to F.
2. B cannot sit next to F.
3. C cannot sit next to G.
4. If D is one of the two people who sit next to E, then which of the following can sit next to E ?
5. B
6. C
7. G
8. Either C or G

Explanation :

There are two arrangements possible.

C G

F B

F B

D G D C

E E

Hence, either C or G sits next to E.

1. Who must sit on the chairs on either side of E, if B sits next to D and C sits next to F ?
2. B and G
3. B and C
4. B and F
5. C and G

Explanation :

E

G C

B D F

Hence, C and G sit next to E.

1. Who must sit directly across the table from F, if C sits next to D and E sits next to F ?
2. C
3. B
4. D
5. E

Explanation :

G

B E

C F

D

B sits opposite F.

1. If C sits to the immediate left of F, what is the total number of seating arrangements possible ?
2. 1
3. 2
4. 3
5. 4

Explanation :

There are 4 arrangements possible.

E G

B G B E

C D

C F D F

B G

E G E B

C F D C F D

1. Who must sit in the chairs on either side of G, if C sits directly across the table from E ?
2. C and D
3. D and E
4. E and F
5. B and E

Explanation:

There are 2 arrangements possible.

C C

B D B F

G E F G E D

In both the arrangements position of G is between B and E only.

Directions for questions 21 to 25 : Read the information given carefully and answer the questions that follow.

Eight persons L, M, N, P, Q, R, S and T are sitting around a square table such that there are two on each side and they are all facing the centre of the table.

1. P sits exactly between L and S.
2. Q sits two places to the left of L.
3. R and T are sitting along one side of the square table. R sits opposite L.
4. M sits two places to the left of R.

Explanation :

Start by fixing the position of one of the persons. The best statement to start with is (iii), since the two opposite positions are fixed simultaneously and the remaining positions can be derived relative to these positions.

There are two possible arrangements.  
 T R R T

L L

Using statement (ii), we get

T R R T  
 Q  
  
 Q   
 L L

Using statement (i), we get

T R R T  
 S Q  
  
 Q P S  
 L L P

Now, according to statement (iv) M sits 2 places to the left of R which is not possible in arrangement 1 as P is already present there. So, only arrangement 2 is possible. The final arrangement is as follows :  
 R T  
 Q M  
  
  
 N S  
 L P

1. Who sits opposite P ?
2. S
3. M
4. N
5. T

Explanation :

T sits opposite P.

1. Who sits two places to the right of S ?
2. P
3. M
4. T
5. L

Explanation :

T sits two places to the right of S.

1. Between which two persons is L sitting ?
2. M \_ P
3. N \_ P
4. N \_ R
5. T \_ Q

Explanation :

L is sitting between N and P.

1. Which of the following is a neighbor of L ?
2. S
3. Q
4. P
5. R

Explanation :

P is L’s neighbor.

1. Who sits opposite Q ?
2. S
3. P
4. T
5. M

Explanation :

M sits opposite Q.

Directions for questions 26 to 30: Read the given information carefully and answer the questions given below:

Five books A,B,C,D, and E have to be proofread in 6 hours where one hour needs to be spent per book.

1. A break of one hour has to be taken in the third or the fourth hour.
2. The proofreading cannot start with A and has to end in c.
3. D has to immediately follow B with no break in between
4. A cannot be done immediately after D.
5. A has to immediately precede E with no break in-between.

Explanation:

C is the last book. The combinations B\_D and A \_E in that order have to compulsorily exist. Now, the order will have to start with B \_D, since A cannot be started with (from (ii)).

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 1 | 2 | 3 | 4 | 5 | 6 |
| B | D |  |  |  | C |

If the fourth hour is the break, then the combination A \_ E cannot be fitted without a break in \_between.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 1 | 2 | 3 | 4 | 5 | 6 |
| B | D |  | X |  | C |

Again, if the fifth hour is the break, we will have the following sequence.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 1 | 2 | 3 | 4 | 5 | 6 |
| B | D | A | E | X | C |

However, this is not possible since A cannot follow D immediately.

Hence, the break has to be in the third hour and the arrangement is as follows:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 1 | 2 | 3 | 4 | 5 | 6 |
| B | D | X | A | E | C |

1. Which hour is the break ?
2. Sixth
3. Fourth
4. Fifth
5. Third

Explanation:

3 rd hour is the break.

1. Which is the first book to be proofread ?
2. D
3. A
4. B
5. C

Explanation:

B is the first book to be proofread.

1. Which book is to be proofread immediately after the break ?
2. D
3. A
4. B
5. C

Explanation:

A is to be proofread immediately after the breakfast.

1. Which book is to be proofread immediately after D ?
2. B
3. E
4. C
5. None of these

Explanation:

None of these.

1. Which book is to be proofread immediately after E ?
2. A
3. E
4. C
5. B

Explanation :

C is to be proofread immediately after E.

Directions for questions 31 to 35 : Read the given information carefully and answer the questions given below :

Six lectures on 6 different subjects Physics, Chemistry, Biology, Algebra, Geometry and Astronomy have to be scheduled (one on each day) across 7 days starting Sunday and ending Saturday. The schedule has to be drawn out for the subjects such that

1. One day has to be a holiday and it can be neither Sunday nor Saturday.
2. Geometry has to be scheduled immediately after Algebra.
3. Physics cannot start the series in the week and has to be done exactly 2 days before Astronomy.
4. Biology has to be scheduled for Thursday and cannot immediately follow Physics.

Explanation :

From(i), we see that the holiday has to be between Monday and Friday (both days included). Biology has to be done on Thursday. Since Physics cannot immediately precede Biology and also cannot start the series, It cannot be scheduled on either Wednesday or Sunday. Also, Physics has to be done two days before Astronomy. So, Physics cannot be done on Tuesday, else Astronomy would clash with Biology. Therefore, Physics has to be scheduled for Sunday and thus, Astronomy on Wednesday.

Algebra has to immediately before Geometry. The only space available for this combination is Friday \_ Saturday. That leaves Chemistry. Since Sunday cannot be free, the holiday has to be on Tuesday and Chemistry on Sunday. Therefore, we get the following as the final table.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
| Chemistry | Physics | X | Astronomy | Biology | Algebra | Geometry |

1. What subject will start the series of lectures ?
2. Algebra
3. Chemistry
4. Physics
5. Biology

Explanation :

Chemistry will start the series of lectures.

1. Which of the following days is a holiday ?
2. Monday
3. Tuesday
4. Wednesday
5. Thursday

Explanation:

Tuesday is the holiday.

1. On which day is the lecture in Physics scheduled ?
2. Monday
3. Tuesday
4. Wednesday
5. Friday

Explanation :

Physics lecture is on Monday.

1. On which day is the lecture in Geometry scheduled ?
2. Monday
3. Tuesday
4. Wednesday
5. Saturday

Explanation:

Geometry lecture is on Saturday.

1. How many days after Physics is Biology scheduled ?
2. One
3. Three
4. Four
5. Two

Explanation:

Biology is scheduled 3 days after Physics.

Directions for questions 36 to 40 : Read the following information carefully and answer questions given below.

1. There are seven teachers ‘A’, ‘B’, ‘C’, ‘D’, ‘E’, ‘F’, and ‘G’ in a college. Each one of them teaches a different subject.
2. There are female and four male teachers, and out of these, there are two pairs of couples.
3. ‘C’ who teaches Social Science is married to the teacher who teaches Chemistry.
4. ‘E’ and ‘G’ are female teachers who teach Zoology and Physics respectively.
5. ‘A’ teaches Mathematics, and his wife does not teach Physics.
6. ‘B’ does not teach Chemistry or Commerce
7. ‘F’ and ‘D’ are male teachers. ‘F’ is unmarried

Explanation :

1 \_ C \_ S. Sciences X Chemistry ….. from (iii)

2 \_ E \_ Female, Zoology ….from (iv)

3 \_ G \_ Female, Physics …from (iv)

4 \_ A \_ Maths, not married to Physics teacher …. from (v)

5. \_ B \_ Does teach Chemistry or Commerce … from (vi)

6 \_ F \_ Male, Unmarried … From (vii)

7 \_ D \_ Male …from (vii)

8 \_ 3 females and 4 males, 2 married couples … from (ii)

‘F’ is unmarried, therefore, ‘C’ is married to ‘D’ …. (using 8) and given that ‘C’ is married to Chemistry teacher, therefore,

D is male (using vii) and teaches Chemistry

C is female …[using (iii) and (vii)]

B is female …(using 8)

F teachers commerce …. [using (vi)]

Therefore, the final table would look like as shown below.

|  |  |  |  |
| --- | --- | --- | --- |
| Teachers | Sex | Subjects | Married to |
| A | Male | Maths | E \_ Zoology |
| B | Male | \_ | Un married |
| C | Female | S. Sciences | D \_ Chemistry |
| D | Male | Chemistry | C \_ S. Sciences |
| E | Female | Zoology | A \_ Maths |
| F | Male | Commerce | Unmarried |
| G | Female | Physics | Unmarried |

The correct choices are :

1. Which subject does ‘F’ teach ?
2. Mathematics
3. Chemistry
4. Commerce
5. Social Sciences

Explanation:

F teaches commerce.

1. Which subject does ‘B’ teach ?
2. Physics
3. Commerce
4. Social Sciences
5. Cannot be determined

Explanation:

Can’t be determined.

1. Which of the following are two pairs of couples?
2. DC and AE
3. AC and DE
4. GA and CD
5. Cannot be determined

Explanation:

DC and AE are the two pairs of couples.

1. Which subject does A’s wife teach ?
2. Chemistry
3. Zoology
4. Social Sciences
5. Cannot be determined

Explanation:

A’s wife teaches Zoology.

1. Who among the following are the males among the two couples ?
2. AC
3. AE
4. AD
5. Cannot be determined

Explanation:

A and D are married males.

Directions for questions 41 to 45 : Read the information given carefully and answer the questions that follow.

Amit, Bharati, Cheryl, Deepak and Eric are five friends sitting in a restaurant. They are wearing caps of five different colours \_ yellow, blue, green, white and red. Also, they are eating five different snacks \_ burgers. Sandwiches, ice-cream, pastries and pizza.

1. The person wearing a red cap is eating pastries.
2. Amit does not eat ice cream and Chery is eating sandwiches.
3. Bharati is wearing a yellow cap and Amit is wearing a blue cap.
4. Eric is eating Pizza and is not wearing a green cap.

Explanation:

Fill Up all the absolute date given. You will get the following table :

|  |  |  |
| --- | --- | --- |
|  | Caps | Snacks |
| Amit | Blue |  |
| Bharati | Yellow |  |
| Cjeryi |  | Sandwich |
| Deepak |  |  |
| Eric |  | Pizza |

Now from (i), red cap and pastries have to be a combination. This cannot fit in anywhere but for Deepak it fits, since parts of the other combinations have filled. That leaves us with two colours of caps \_ green and white and two snacks \_ ice cream and burgers, For caps, Eric does not wear green cap; hence out of the colours left, he has to wear the white cap. Again, Amit does not eat –ice-cream, therefore, he has to eat burgers So, we get the following table.

|  |  |  |
| --- | --- | --- |
|  | Caps | Snacks |
| Amit | Blue | Burgers |
| Bharati | Yellow | Ice-cream |
| Cheryi | Green | Sandwich |
| Deepak | Red | Pastries |
| Eric | White | Pizza |

1. What is Amit eating ?
2. Burgers
3. Sandwiches
4. Ice cream
5. Pastries

Explanation:

Amit is eating burgers.

1. Who is wearing the green cap?
2. Amit
3. Bharati
4. Cheryl
5. Deepak

Explanation:

Cheryi is wearing the green cap.

1. Who is eating ice cream ?
2. Amit
3. Bharati
4. Cheryl
5. Deepak

Explanation:

Bharati is eating the ice-cream

1. Which colour cap is Eric wearing ?
2. Yellow
3. Blue
4. Green
5. White

Explanation:

Eric is wearing the white cap.

1. Which of the following combinations is not correct ?
2. Yellow cap + ice cream
3. Red cap + pastries
4. White cap + pizza
5. Bharati + burger

Explanation:

‘Bharati + Burger’ is not the right combination.

1. Ramesh is taller than Vinay, who is not as tall as Karan. Sanjay is taller than Anupam but shorter than vinay. Who among them is the tallest ?
2. Ramesh
3. Karan
4. Vinay
5. Cannot be determined

Explanation:

Ranking of Karan is not defined. As R and K > V > S >A consequently either Ramesh of Karan is tallest.

1. Among A, B, C and D, it is known that B is heavier than A and C but C is taller than B. D is not as tall as C, While A is the shortest. C is not as heavy as A. D is heavier than B but shorter than him. Who are the heaviest and the tallest, respectively ?
2. B, C
3. A, D
4. D,C
5. C,D

Explanation :

There is a comparison in height and weight of persons. Arranging the given information in decreasing order, we get

Weight : D > B > A > C

Height : C > B > D > A

D and C are the heaviest and the tallest, respectively.

1. A ranks 5th from the top in the class. B is 8th from the last. If C is ranked 6th after A and just in the middle of A and B, how many students are there in the class ?
2. 25
3. 26
4. 23
5. 24

Explanation:

First A C B Last

5th 11th 17th

Total no. of students in the class

5 + 6 + 6+ 7 = 24

1. Three girls P, Q and R played 3 games of carom. Each player is ranked in each game according to the points earned in that game. A player with the highest point is ranked first, and so on. Each girl got a different rank in each game. P got the second rank in the fist game and R got the first rank in the second game, then who got the 3rd rank in the third game ?
2. P
3. Q
4. R
5. Can’t determined

Explanation:

As P gets the first rank in IInd game, he has to get 1st and IInd ranks in the other two games. As R gets the Ist rank in the second game, he has to get IInd and IIIrd ranks In the other two games.

From above statements, P gets IIIrd rank in game IIand 1st in game III.

|  |  |  |  |
| --- | --- | --- | --- |
| Game | Rank | | |
| Ist | IInd | IIIrd |
| I | Q | R | P |
| II | P | Q | R |
| III | R | P | Q |

So, Q got the IIIrd rank in game III.

1. Six students are sitting in a row. K is sitting exactly between V and R. V is sitting next to M.M is sitting next to B, who is sitting on the extreme left end and Q is sitting next to R. Who are sitting adjacent to V ?
2. Q and K
3. R and Q
4. B and M
5. M and K

Explanation:

By arranging the given information, we will get the following seating arrangement.

B M V K R Q

So, V is sitting between M and K.

1. Six persons A, B, C, D, E and F are sitting around a circle facing towards centre. B is sitting exactly between F ad C. A is sitting exactly between E and D. F is to the left of D. Who is sitting between A and F ?
2. B
3. C
4. D
5. E

Explanation:

Seating arrangement: C

B

F E

D A

Clearly, D is sitting between A and F.

1. Six books are kept one above the other. History book is just above the Computer book. The Math book is between the Civics book and the Physics book. The English book is between the History book and the Civics book, then which subject book is at the bottom of the pile of books ?
2. History
3. Physics
4. Computer
5. Civics

Explanation:

Books are kept from top to bottom in the following sequence.

Physics

Maths

Civics

English

History

Computer

Hence, the Computer book is at the bottom of the pile.

1. In a concert, a musician had sung four classical Raagas viz. Bhairavi, Kedar, Todi and Durbai, Durbari was not sung before Bhairavi kedar was sung before Bhairavi. Todi was sung Immediately after Durbari, then which Raaga was sung immediately after Bhairavi ?
2. Todi
3. Kedar
4. Durbari
5. Can’t say

Explanation:

Order in which a musician had sung four classical Raagas is as follows:

1. Kedar
2. Bhairavi
3. Durbari
4. Todi

So, Durbari was sung immediately after Bhairavi.

1. Three students are to be selected in a team, from a group of six students \_ Ram, Shyam, Raju, Amit, Rohit and Dinesh \_ by satisfying the following conditions.
2. Ram and Shyam cannot be in the same team.
3. Raju and Amit must be selected together.
4. Rohit and Dinesh cannot be in the same team.

Who among the following must be in the team ?

1. Ram
2. Shyam
3. Amit
4. Dinesh

Explanation:

Given:

1. Ram and Shyam cannot be in the same team.
2. Raju and Amit must be selected together.
3. Rohit and Dinesh can’t be in the same team.

As least one of Ram and Shyam must be rejected both Raju and Amit must be selected.

So, Amit must be in the team.

1. Three persons must be selected from among five persons \_ A, B, C, D and E, A and B cannot be together. A and D cannot be together. B and C must be together. Which of the following is the correct team ?
2. B, A and E
3. A, B and C
4. A, D and B
5. B, C and F

Explanation:

Given :

A and B cannot be together.

A and D cannot be together.

B and C must be together.

Hence, the correct team is B, C and F.

1. If it is possible to make a meaningful word with the third, sixth and ninth letters of the word RESTAURANT, then what will be the first letter of the word? If no such word is possible, mark ‘X’ as your answer. If more than one such words are possible, mark ‘M’ as your answer.
2. U
3. M
4. S
5. X

Explanation:

S, U and N are the third, sixth and ninth letters of the word RESTAURANT. SUN is the only meaningful word.

1. If starting from the left, the first and the seventh, the second and the eighth, the third and the ninth …. And so on, letters of the word RELATIONSHIP are interchanged; what will be the third letter from the right, if the second half of the new word, thus formed is reversed?
2. T
3. L
4. A
5. E

Explanation :

When the first and the seventh, the second and the eighth, and so on …. Letters are interchanged, the new word is ONSHIPRELATI.

Now, the third letter from the right. If the second half of this word is reversed, [ONSHIPITALER] will be L.

1. How many pairs of letters are there in the word NECESSARY which have as many letters between them in the word as there are between them in the alphabet and in the same order ?
2. One
3. Two
4. Three
5. NIll

Explanation:

Clearly, such a letter pair is N and S. In the word NECESSARY, there are four letters between them : E, C, E and S. in the alphabet too, N and S have four letters between them : O, P Q and R.

1. How many numbers are there in the given series which are preceded by the number which can be divided by 3 and followed by the number which is divided by 2 ?

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

1. 1
2. 4
3. 2
4. Nill

Explanation:

Numbers satisfying the given condition are underlined in the given series :

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

There are four such numbers.

1. How many A’s are there in the following sequence which are immediately followed by B as well as immediately preceded by Z ?

A M B Z A B M N A B Z A B A Z B A M Z B A B Z A B

1. 1
2. 3
3. 2
4. 4

Explanation :

The A’s that satisfy the given condition are underlined in the sequence.

A M B Z A B M N A B Z A B A Z B A M Z B A B Z A B

There are three such A’s.