ILLUSTRATIVE EXAMPLES

Ex. 1. Study the following information carefully and answer the questions given below it:

From amongst six boys A, B, C, D, E and F and five girls P, Q, R, S and T, a team of six is to be selected under the following conditions:

i) A and D have to be together.
ii) C cannot go with S.
iii) S and T have to be together.
iv) B cannot be teamed with E.
v) D cannot go with P.
vi) B and R must be together.
vii) C and Q must be together.

1.If there be five boys in the team, the lone girl member is

a) P b) Q
c) R d) S

2. If including P, the team has three girls, the members are

a) B, C, F, Q, R b) A, D, E, S, T
c) A, D, B, S, T d) B, F, R, S, T

3. If the team including C consists of four boys, the members of the team other than C are

a) A, D, E, P, Q b) A, B, D, Q, R
c) D, E, F, A, Q d) B, E, F, R, Q

4. If four members including E have to be boys, the members other than E are

a) A, B, C, Q, R b) A, D, F, S, T
c) B, C, F, Q, R d) A, C, D, F, Q

5. If four members have to be girls, the members of the team are

a) B, C, P, Q, R, S b) B, F, P, R, S, T
c) B, C, Q, R, S, T d) B, C, P, Q, R, T

Ex. 2. Each of the questions given below is based on the following passage along with the set of conditions given therein. For each question, select the best alternative.

A student is planning his class schedule for the fall and spring semesters. He must take exactly three courses each semester. By the end of the spring semester, the student must complete at least three courses in Area P, at least one course in Area Q and at least one course in Area R. The only courses available to the student are:

Area P : P102, P201, P202, P203
Area Q : Q101, Q102, Q103, Q201
Area R : R101, R102, R202

The selection of courses is subject to the following restrictions:

i) A student can take not more than two courses with the same letter designation per semester.
ii) Courses with a number designation in the 200s are offered only in the spring semester.
iii) No course taken in the fall semester can be repeated in the spring semester.

1.Which of the following is a course that the student must take?

a) P102 b) Q101
c) Q102 d) R101

2. Which of the following is a possible schedule for the spring semester?

a) P102, Q101 and Q102
b) Q101, Q102 and Q201
c) P102, Q101 and P202
d) P201, P202 and R102

3. If the student takes Q101 and Q102 in the fall, his spring schedule must include

a) P203
b) P201 and P202
c) exactly one course from Area Q
d) exactly one course from Area R

Ex. 3. Read the following information carefully to answer the given questions :

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During one week, a human resource director conducts five interviews for a new job, one interview per day, Monday through Friday. There are six candidates for the job – Rajan, Sachin, Tarun, Asha, Vanya and Kunal. No more than two candidates are interviewed more than once. Neither Sachin nor Asha nor Vanya is interviewed more than once, and no other candidate is interviewed more than twice. The schedule of interviews is subject to the following conditions :

i) If Tarun is in interviewed twice, then he must be interviewed on both Monday and Friday.
ii) If Sachin is interviewed, then Asha is also interviewed, with Sachin's interview taking place earlier than Asha's interview.
iii) If Rajan is interviewed twice, then Rajan's second interview takes place exactly two days after Rajan's first interview.
iv) If Vanya is interviewed, then Kunal is interviewed twice, with Vanya's interview taking place after Kunal's first interview and before Kunal's second interview.
v) If Asha is interviewed, then Rajan is also interviewed, with Asha's interview taking place on a day either immediately before of immediately after a day on which Rajan is interviewed.

1.Which of the following could be a complete and accurate list of candidates the human resource director interviews and the days on which those interview take place ?
a) Monday : Sachin, Tuesday : Kunal, Wednesday : Rajan, Thursday : Kunal, Friday : Rajan.
b) Monday : Sachin, Tuesday : Kunal, Wednesday : Rajan, Thursday : Kunal, Friday : Asha
c) Monday : Tarun, Tuesday : Rajan, Wednesday : Sachin, Thursday : Rajan, Friday : Tarun
d) Monday : Tarun, Tuesday : Rajan, Wednesday : Kunal, Thursday : Vanya, Friday : Tarun

2. If Vanya is interviwed on Tuesday, then which of the following must be true ?
a) Tarun is interviwed on Friday
b) Asha is interviewed on Thursday
c) Rajan is not interviwed
d) Sachin is no interviewed

3. If Kunal is not interviwed, then which one of the following must be true ?
a) Rajan is interviewed on Thursday
b) Sachin is interviewed on Tuesday
c) Tarun is interviewed on Monday
d) Asha is interviwed on Wednesday

4. If sachin is interviwed, then which one of the following could be true ?
a) Kunal is interviwed on both Tuesday and Wednesday
b) Asha is interviwed on Thursday
c) Vanya is interviewed on Tuesday
d) Sachin is interviewed on Thursday

5. If neither Asha nor Tarun is interviewed, then each of the following could be true except
a) Rajan is interviewed on Monday
b) Rajan is interviewed on Thursday
c) Vanya is interviewed on Tuesday
d) Kunal is interviewed on Wednesday

6. If both Asha and Vanya are interviewed, then which of the following is a complete and accurate list of the days on which Kunal could be interviewed ?
a) Monday, Friday
b) Tuesday, Thursday
c) Monday, Wednesday, Friday
d) Tuesday, Wednesday, Thursday

Practice Questions:

Directions (Questions 1 to 5) : Study the following information carefully and answer the question that follow :

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A team of five is to be selected from amongst five boys A, B, C, D and E and four girls P, Q, R and S.
Some criteria for selection are :
A and S have to be together.
P cannot be put with R.
D and Q cannot go together.
C and E have to be together.
R cannot be put with B.
Unless otherwise stated, these criteria are applicable to all the questions below.

1. If two of the members have to be boys, the will consist of
a) A, B, S, P, Q
b) A, D, S, Q, R
c) B, D, S, R, Q
d) C, E, S, P, Q

2. If R be one of the members, the other members of the team are
a) P, S, A, D
b) Q, S, A, D
c) Q, S, C, E
d) S, A, C, E

3. If two of the members are girls and D is one of the members, the members of the team other than D are :
a) P, Q, B, C
b) P, Q, C, E
c) P, S, A, B
d) P, S, C, E

4. If A and C are members, the other members of the team cannot be
a) B, E, S
b) D, E, S
c) E, S, P
d) P, Q, E

5. If including P at least three members are girls, the members of the team other than ?
a) Q, S, A, B
b) Q, S, B, D
c) Q,S, B, D
d) R, S, A, D

Directions (Questions 6 to 10) : These questions are based on the following information :
From time to time, the Managing Director of a Company appoints Planning Committees, each consisting of exactly three members. Eligible for appointment are three executives from Finance B, C, D and three executives from Operations – E, F and M
Any given committee is subject to the following restrictions on appointments :
i) At least one member must be from Finance, and at least one member must be from Operations.
ii) If B is appointed, C cannot be appointed
iii) Neither D nor F can be appointed unless the other is also appointed
iv) If E appointed, M must be appointed

6. Which of the following is an acceptable committee ?
a) E, F and M
b) D, E and F
c) D, F and M
d) B, D and M

7. If appointees from Operations are in majority in an committee, that committee must include
a) M
b) F
c) E
d) C

8. If the restrictions on appointments apply also a four-member committee appointed from the same group of executive, which of the following will be true ?
a) If B is appointed, M must also be appointed
b) If F is appointed, C must also be appointed
c) If C is appointed, E must also be appointed
d) none of the above will be true

9. If B is appointed to the same committee as M, which of the following will be true of that committee ?
a) E is not a committee member
b) F is a committee member
c) Appointees from Finance are in majority

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d) Appointees from Operations are in majority

10. If appointees from Finance are in majority on a committee, that committee must include
a) B b) C
c) F d) M

Directions (Questions 11 to 15) : Read the following information carefully and answer the questions given below it :
There are five men A, B, C, D and E six women P, Q, R, S, T and U, A, B and R are advocates; C, D, P, Q and S are doctors and the rest are teachers. Some teams are to be selected from amongst these eleven persons subject to the following conditions :
A, P and U have to be together
B cannot go with D or R
E and Q have to be together
C and T have to be together
D and P cannot go together
C cannot go with Q

11. If the team is to consist of two male advocates, two lady doctors and one teacher, the members of the team are
a) A, B, P, Q, U b) A, B, P, U, S
c) A, P, R, S, U d) B, E, Q, R, S

12. If the team is to consist of one advocate, two doctors, three teachers and C may not go with T, the members of the team are
a) A, E, P, Q,S, U b) A, E, Q, S, T, U
c) B, E, Q, S, T, U d) E, Q, R, S, T, U

13. If the team is to consist of one male advocate, one male doctor, one lady doctor and two teachers, the members of the team are
a) A, C, P, T, U
b) A, D, E, P, T
c) A, D, E, P, U
d) B, C, E, Q, U

14. If the team is to consist of one advocate, three doctors and one male teacher, the members of the team are
a) A, D, P, S, U
b) C, D, R, S, T
c) D, E, Q, R, S
d) D, E, Q, R, T

15. If the team is to consist of two advocate, two doctors, two teachers and not more than three ladies, the members of the team are
a) A, B, C, P, T, U
b) A, C, P, R, T, U
c) A, E, P, Q, R, T
d) B, C, E, Q, R, T

Directions (Questions 16 to 19) : Read the following information carefully to answer the given question :
A company wants to select a team of four call centre executive from its South Indian Centre for transfer to North India where they are going to set up a new centre. The company is managed by professional managers and is very particular about human resources and personnel relations. There are seven team members of equal ability X, Y and Z (who are Senior), and A, B, C and D(who are Junior). The company requires that there should be two senior executives and two junior executives in the team. It is also necessary that all of the executives is a particular team are friendly with each other in order to have a real team spirit and avoid any personnel relations problem in the new center being being set up in the North.
Following is the situation of relations among the seven executive :

16. If A is on the team, then which other executive must be on the team as well ?
a) X, Y and D b) X, Z and B
c) X, Z and C d) X, Z and D

17. Which statement(s) must be false ?

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I. Y and C are never selected together
II. Z and B are never selected together
III. Z and D are never selected together
a)I only b) I and II only
c) I and III only d) I, II and III

18. If both Y and Z are selected, which of the executives must be on the team with them ?
a) both B and A b) Both B and D
c) Both C and D d) only D

19. which of the following statements is/are true for X ?
I. X must be selected as one of the Senior Executives on the team
II. X must be selected, if C is selected.
III. X cannot be selected, if both A and C are rejected
a)I only b) II only
c) II and III only d) I, II and III

Directions (Questions 20 to 24) : Study the following information carefully and answer the questions given below it :
From amongst five doctors A, B, C, D and E, four engineers G, H, K and L and six teachers M, N, O, P, Q and R, some teams are to be selected. Of these, A, B, G, H, O, P and Q females and the rest are males.
The formation of teams is subject to the following conditions
Whenever there is a male doctor, there will be no female teacher.
Whenever there is a male engineer, there will be no female doctor
There shall not be more than two male teachers in any team

20. If the team consists of two doctors, three females teachers and two engineers the members of the team are
a) A, B, O, P, Q, G, h
b) C, D, K, L, O, P, Q
c) C, D, O, P, Q, G, H
d) D, E, G, H, O, P, Q

21. If the team consists of two doctors, one engineer and four teachers, all the following teams are possible except
a) A, B, G, M, N, O, P
b) A, B, H, M, O, P, Q
c) A, B, H, M, O, P, Q
d) A, B, K, N, R, P, Q

22. If the team consists of two doctors, two female teachers and two engineers, the following teams are possible except
a) A, B, G, H, O, Q
b) A, B, G, H, P, Q
c) A, B, K, L, P, Q
d) O, P, G, H, A, B

23. If the team consists of three doctors, two male engineers and two teachers, the members of the team could be
a) A, B, C, K, L, M, R
b) B, C, D, K, L, N, R
c) C, D, E, K, L, M, N
d) C, D, e, K, L, P, R

24. If the team consists of two doctors, two engineers and two teachers, all of the following teams are possible except
a) A, B, G, H, O, P
b) A, B, G, H, M, N
c) C, E, K, L, N, R
d) C, D, K, L, O, P

Directions (Questions 25 to 29) : Read the following statements carefully to answer these questions :
From a batch of six boys A, B, C, D, E and F and four girls P, Q, R and S, a team of six is to be selected.
Some of the criteria are
B and D have to be together
C cannot go with Q

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F cannot go with A or D
P and R have to be together
P cannot go with S
A and E have to be together
Unless otherwise mentioned, the above criteria are applicable to all the following questions :

25. If four of the members including E have to be boys and one of the girls has to be R, then the team consists of
a) A, D, E, F, P, R
c) B, D, E, F, P, R
c) A, B, D, E, R, S
d) A, B, D, E, P, R

26. If at least three members have to be girls and C agrees to team with Q but Q refuses to team with A, then the team consists of
a) B, C, D, P, R, S
b) B, D, E, P, Q, S
c) B, C, D, P, Q, R
d) A, C, E, P, R, S

27. If not more than one member has to be a girl, then the team consists of
a) A, B, C, D, E, S
b) A, B, C, D, E, Q
c) A, B, C, D, E, P
d) A, B, C, E, F, R

28. If three members including C have to boys and S agrees to team with P while E refuses to do so, then the other members of the team are
a) A, E, Q b) B, D, R
c) E, F, S d) B, D, Q

29. If the team is to consist of two girls and F agrees to team with D, then which of the following teams is not possible ?
a) B, C, D, F, Q, S
b) B, C, D, F, P, R
c) A, B, D, E, P, R
d) A, B, D, E, Q, S

Directions (Questions 30 to 32) : Read the following information carefully and answer the questions given below it :
Eight students A, B, C, D, E, F, G and H are planning to enjoy car racing. There are only two cars and following are the conditions :
i)One car can accommodate maximum five and minimum four students
ii) A will sit in the same car in which D is sitting but H is not in the same car
iii)B and C can't sit in the same car in which is sitting
iv)F will sit in the car of four people only along with A and E but certainly not with G

30. If H and G are sitting in the same car, who are other two students sitting in the same car ?
a) B and C b) C and D
c) B and d d) E and B
e) none of these

31. If E and A are sitting in the same car. Which of the following statements is true ?
a) Five students are sitting in the same car
b) B is sitting in the same car
c) F is not sitting in the same car
d) G is not sitting in the same car.
e) none of these

32. Which of the following statements is superfluous for the above sitting arrangements ?
a) Only (i) b) Only (ii)
c) only (iii) d) only (iv)
e) none of these

Directions (Questions 33 to 37) : Read the following information carefully to answer the given questions :
X, Y, Z Ltd. Presently has three Accounts Assistants – A, B and C – and five accounts Officers – D, E, F, G and H. Its management is planning to open a new

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office in another city using three Accounts Officers and two Accounts Assistants from its present staff. The following guidelines have been established to set up the new office:
i)A and C are constantly finding faults with each other and should not be sent as members of the same team.
ii) C and E function well alone but not as a team. They should not be sent as members of the same team.
iii)D and G do not enjoy good relations. They should not be sent as members of the same team.
iv)Since D and F have been competing for a promotion, they should not be sent as members of the same team.

33. If C and F are moved to the new office, then what is the number of different teams that can be formed ?
a) 1 b) 2 c) 3 d) 4

34. If C is sent to the new office, then which member of the staff cannot go with C?
a) D b) F c) G d) H

35. Under the guidelines developed, which of the following must go to the new office?
a) B b) D c) E d) G

36. Under the guidelines developed, which of the following is the possible number of different teams which can be sent to the new office?
a) 6 b) 8 c) 12 d) 15

37. If D goes to the new office, then which of the following is/are correct ?
1.C cannot go 2. A cannot go
3. H must also go
a) 1 only b) 2 only
c) 1 and 12 d) 1 and 3

Directions (Questions 38 to 42) : Study the following information carefully to answer the questions given below :
In an examination, six subjects were available for a candidate of which only three had to be offered under the following conditions.
One who offered A had to offer B also and vice versa.
One who offered A could not offer E.
One who offered A could not offer F.
The distribution of the candidates over the subjects was as follows:
A – 70, B – 70, C – 90, D – 85, E – 70, F – 35

38. How many combinations were permitted?
a) 4 b) 5 c) 6 d) &

39. How many candidates in all appeared for the examination?
a) 120 b) 130 c) 140 d) 380

40. How many candidates offered the combination A + B + C?
a) 15 b) 20 c) 35 d) 70

41. How many candidates combined C with D?
a) 15 d) 35 c) 20 d) 70

42. How many candidates offered B with F?
a) 15 b) 20 c) 35 d) 70

Directions (Questions 43 to 46): Read the following information carefully and answer the questions that follow:
Seven instructors – J, K, L, M, N, P and Q – teach management courses at a premier institute in east India. Each instructor teaches during exactly one term: the first term, the second term or the third term.
The following conditions apply:
i) K teaches during the third term.
ii) L and M teach during the same term.

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iii) Q teaches during either the first term or the second term.
iv) Exactly twice as many instructors teach during the third term as teach during the first term.
v) N and Q teach during different terms.
vi) J and P teach during different terms.

43. Which one of the following could be an accurate matching of instructors to terms?
a) J : the first term ; M : the third term; N : the second term
b) L : the first term; N : the second term; P : the third term
c) M : the first term; P : the second term; Q : the first term
d) J : the third term; L : the third term; P : the third term

44. Which of the following cannot be true?
a) N teaches during the second term.
b) M teaches during the third term.
c) L teaches during the first term.
d) M teaches during the second term.

45. If exactly one instructor teaches during the second term, which one of the following must be true?
a) P teaches during the second term.
b) M teaches during the third term.
c) L teaches during the first term.
d) J teaches during the second term.

46. If more instructors teach during the second term than teach during the first term, then which one of the following instructors must teach during the second term?
a) J b) M c) N d) P

Directions (Questions 47 to 51) : Read the data given below to answer these questions :
The Director of a B-school whishes to select four members of a faculty - student committee as representatives to meet with the School's Board of Directors. The faculty – student committee consists of exactly four faculty members – K, L, M and N – and four students – P, Q, R and S. The Director can select any of the committee members as representatives if he observes the following restrictions:
i) The group of four representatives must consist of exactly two faculty members and two students.
ii) Either K or L must be one of the representatives, but K and L cannot both be representatives.
iii) If P is a representative, M must also be a representative.
iv) If R is a representative, L cannot be a representative.

47. If L, N and Q are representatives, which of the following must also be a representative?
a) M b) S c) P d) R

48. If P is a representative, which of the following cannot also be a representative?
a) N b) M c) Q d) R

49. If R is a representative and M is not a representative, the group of representatives would be completely determined if it were also true that
a) L is not a representative.
b) S is not a representative.
c) P is not a representative.
d) N is a representative.

50. If neither Q nor S is a representative, which of the following is the pair of faculty members who must be representatives?
a) K and M b) K and N
c) L and M d) L and N

51. If L is a representative, which of the following can be other three representatives?

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a) N, S, P B) M, Q, P
C) M, Q, R D) K, Q, S

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