Puzzle Test

PUZZLES!!!

Yes, we are going to solve arrangement type puzzles in this section. This chapter consists of all type of arrangements and we have to solve the problem precisely.

Types:

- Arrangements:

➢ Linear Arrangement

➢ Circular Arrangement

➢ Cross Variable Arrangement

➢ Linear Relationship

- Selection decision table

For Solving Arrangements:

- Check the direction in which the arrangement is specified.
- For each and every statement, derive all the possible arrangements.
- Initially, derive arrangements for definite statements.
- Making possible arrangements will cancel out the irrelevant arrangements and helps to find all the arrangements in the stipulated time.
- 'Immediately' means – placed immediately (adjacent position) after the required variable.
- 'After' means – can be anywhere after the specified variable.

Example for linear Arrangement:

Read the following information carefully and answer the questions given below:

> Six lectures A, B, C, D, E and F are to be organized in a span of seven days - from Sunday to Saturday - with only one lecture on each day in accordance with the following :

(i)   A should not be organized on Thursday.

(ii) C should be organized immediately after F.

(iii) There should be a gap of two days between E and D.

(iv) One day there will be no lecture (Friday is not that day). Just before that day, D will be organized.

(v)   B should be organized on Tuesday and should not be followed by D.

1. On which day is there no lecture?
a) Monday
b) Sunday
c) Friday
d) Cannot be determined

Ans: a) Monday

2. How many lectures are organized between C and D?
a) None
b) One
c) Two
d) Three

Ans: d) Three

3. On which day will the lecture F be organized
a) Thursday
b) Friday
c) Saturday
d) Sunday
Ans: a) Thursday

4. Which of the following is the last lecture in the series?
a) A
b) B
c) C
d) Cannot be determined
Ans: a) A

Directions:

Read the paragraph carefully and answer the questions below it.

➢ Nine family members are sitting in a theatre in one row. They are J, K, L, M, N, O, P, Q and R. L is at the right of M and at third place at the right of N. K is at one end of the row. Q is immediately next to O and P. O is at the third place at the left of K. J is right next to the left of O.

1. Which of the following statement is true?
a) There is one person between L and O
b) R and P are neighbours
c) M is at one extreme end
d) N is at two seats away from J
e) None of the above

Ans: a) There is one person between L and O

2. The family members sitting on the right of O are
a) RML
b) JQP
c) QPK
d) KPR
e)   Cannot be determined
Ans: c) QPK

3. Who is sitting in the centre of the row?
a) L
b) J
c) O
d) Q
e) None of the above
Ans: b) J

4. Who are sitting next to L?
a) A and O
b) M and J
c) M and O
d) P and J
e) Data Inadequate
Ans: b) M and J

5. Who is at the other end of the row?
a) R
b) J
c) P
d) N
e) Q
Ans: d) N

Directions:

Read the following information carefully and answer the questions given below:

I.   Eight rooms P, Q, R, S, T, U, V and W are located adjacent to one another in two different rows with four in each row.

II.   Doors of the rooms of one row open into the doors of the rooms of another row.

III.   No room of consecutive letter is either adjacent or opposite to each other.

IV.   P and Q are the rooms located at the end of two different rows.

V.   R is just left of T and is located in the same row in which P is located.

VI.   U is just left of Q.

1. Which room is opposite to P?
a) S
b) U
c) W
d) Cannot be determined

Ans: a) S

2. Which room is diagonally opposite to S?
a) Q
b) W
c) V
d) Cannot be determined

Ans: c) V

3. Which room is opposite to R?
a) U
b) W
c) Q
d) Cannot be determined

Ans: a) U

4. Which room/(s) is /are adjacent to W?
a) R
b) U and S
c) Q and U
d) Cannot be determined

Ans: b) U and S

5. Which of the following room is not located at either ends?

a) Q

b) V

c) S

d) W

Ans: d) W

Example for circular arrangement:

Study the following information to answer the questions given below:

I.   Eight persons E, F, G, H, I, J, K and L are seated around a square table-two on each side.

II.   There are three lady members and they are not seated next to each other.

III.   J is between L and F.

IV.   G is between I and F.

V.   H, a lady member is second to the left of J.

VI.   F, a male member, is seated opposite to E, a lady member.

VII.   There is a lady member between F and I.

1. Who among the following are the three lady members?
a) E,H and J
b) E,G and J
c) G,H and J
d) None of these

Ans: d)None of these

2. Which of the following is true about J?
a) J is a male member.
b) J is a female member.
c) Sex of J cannot be determined.
d) Position of J cannot be determined.

Ans: a) J is a male member.

3. Who among the following is seated between E and H?

a) I

b) J

c) F

d) None of these

Ans: d) None of these

4. Who among the following is to the immediate left of F?

a) G

b) J

c) I

d) Cannot be determined

Ans: b) J

5. How many persons are seated between K and F?
a) One
b) Two
c) Three
d) Cannot be determined
Ans: c) Three

Directions:

Read the following information and answer the questions based on it.

A, B, C, D, E, F and G are playing cards sitting in a circle.

(i) F is second to the right of G.

(ii) B is neighbours of F but not of E

(iii) C's neighbor E, is 4th to the right of G.

(iv) D is between E and A.

1. Who is fourth to the left of G?

a) D

b) E

c) C

d) Cannot be Determined

Ans: c) C

2. Who is to the left of G?
a) A
b) B
c) C
d) Cannot be determined

Ans: a) A

3. Who are the neighbours of F?
a) E and C
b) F and B
c) A and B
d) C and B

Ans: d) C and B

Example for Cross Variable Arrangement:

➢ There are seven friends – B, S, R, M, G, Y and K, each of them aspires to become something.

➢ Each of them likes different colours viz. Blue, Yellow, Green, Violet, Maroon, Black and Red not necessarily in the same order.

➢ Each of them wants to become Lawyer, Doctor, Engineer, Actor, Pilot, Army Chief and Cricketer not necessarily in the same order.

➢ G likes Violet colour and wants to become Doctor. R like Yellow colour and wants to become a Cricketer.

➢ K does not like Black colour and does not want to become an Engineer.

➢ The person who likes Maroon colour, wants to become an Actor while the person who wants to be Pilot likes blue colour.

➢ B likes red colour but Y does not like green or black colour and he does not want to become an Actor.

➢ M wants to become a Lawyer. S does not want to become an Engineer or an Army Chief.

1. Who does want to become an Army Chief?
(a) Y   (b) K (c) B (d) Data Inadequate (e) None

2. The person who wants to become a Lawyer likes which colour?
(a) Red (b) Green (c) Blue (d) Data Inadequate (e) None

3. Y want to become a/an:
(a) Army chief (b) Actor (c) Engineer (d) Pilot
(e) None

4. Who does like Maroon colour?

(a) S   (b) Y   (c) K   (d) Data Inadequate

5. Which of the following combinations of preson – colour – profession is correct?

(a) M – Blue – Lawyer   (b) B –Red – Crickter

(c) Y – Blue – Pilot   (d) S – Green – Actor

Directions:

A precious diamond stone is stolen from the famous London Museum. The thieves were suspected to be hiding in any one of the following five cities- Nottingham, Brisbane, Harare, Senegal and Port Blair. One chief officer from each of these five places namely Adam, Nathan, Farzana, Tom Anderson and Benazir have been called for a meeting and each of them is assigned to arrest the suspects. None of them was posted in own home town and each of them likes five different dishes - Chicken tikka, Prawn butter fry, Pork Sanwich, Hot dog and crab lollypop.

- Tom who lives in Port Blair likes Hotdog and Adam who is posted in Senegal likes prawn butter fry.
- One who is posted in Brisbane likes Crab lollypop.
- Farzana's hometown is Brisbane and she is posted in Nottingham.
- Adam, Nathan and Tom are posted in home towns of Nathan, Tom and Adam respectively.

1. Who is posted in Brisbane?

 (a) Adam (b)Nathan (c)Farzana (d)Benazir
 (e) Tom anderson

Ans: d) Benazir

2. Which of the following is Tom's posting place?
 (a) Brisbane (b) Senegal (c) Harare (d)Port Blair
 (e) Nottingham
Ans: c) Harare

3. Which of the following is correct?
 (a)Tom- PB, Adam-Bris, Nathan-Senegal, Farzana-
   Harare
 (b)Tom-PB, Adam-Harare, Farzana-Brisbane,
   Nathan- Senegal
 (c)Tom-PB, Adam-Harare, Farzana- Notting,
   Nathan- Senegal
 (d)None of these.
Ans: b

4. What is Benezir's home town?
(a)Nottingham (b)Harare (c)Port Blair (d)Brisbane
(e)Senegal
Ans: a) Nottingham

5. Which of the following could be Farzana's
   favourite dish?
 (a) Port Sandwich (b) Hotdog (c)Chicken tikka
 (d) a or b (e) a or c
Ans: e) a or c

Directions:

Read the following information carefully and answer the questions given below:

➤ Prasanth Arora has three children- Sangeetha, Vimal and Ashish.

➤ Ashish is a male person, married Monika, the eldest daughter of Mr. and Mrs. Roy.

➤ The Roys married their youngest daughter to the eldest son of Mr. and Mrs. Sharma, and they had two children named Amit and Shashi.

➤ The Roys have two more children, Roshna and Vandana, both elder to Veena.

➤ Sameer and Ajay are sons of Ashish and Monika.

➤ Reshmi is the daughter of Amit.

1. What is the surname of Reshmi?
a) Sharma
b) Roy
c) Arora
d) None of these
Ans: a) Sharma

2. How is Sameer related to Monika's father?
a) Grandson
b) Son
c) Cousin
d) Son in law
Ans: a) Grandson

3. What is the surname of Sameer?
a) Roy
b) Sharma
c) Arora
d) None of these

Ans: c) Arora

Example for Selection Decision Table:

Following are the conditions for selecting Chief Manager- Marketing in an organization

The candidate must:

I.   Be at least 35 years old as on 01.02.2010.

II.   Have secured at least 55 percent marks in graduation.

III.   Have secured at least 60 percent marks in post graduate degree/ diploma in Marketing Management.

IV.   Have post qualification work experience of at least ten years in the marketing division of an organization.

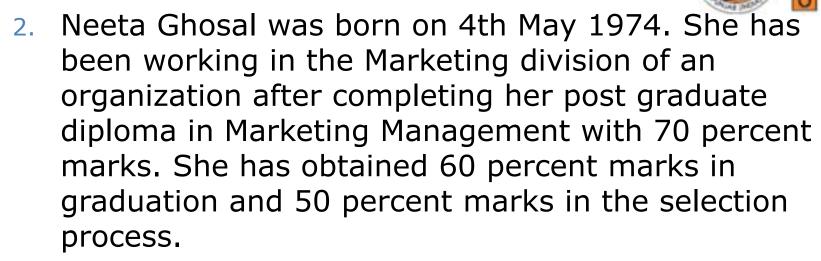V.   Have secured at least 50 percent marks in the selection process.

In the case of a candidate who satisfies all the above conditions. Except-

at (IV) above but has post qualification work experience of at least six years as Manager-Marketing, the case is to be referred to Head- Marketing Division.

at (II) above but has secured at least 65 percent marks in post graduate degree/diploma in Marketing Management, the case is to be referred to GM- Marketing

In each question below are given the details of one candidate. You have to take one of the following courses of action based on the information provided and the conditions and sub-conditions given above and mark the number of that course of action as your answer. You are not to assume anything other than the information provided in each question. All these cases are given to you as on 01.02.2010.

Mark answer as,

(A)if the candidate is to be selected.

(B)if the case is to be referred to Head-Marketing Division.

(C)if the case is to be referred to GM-Marketing.

(D)if the candidate is not to be selected.

(E)if the data provided are inadequate to take a decision

(1) Arjun has secured 65 percent marks in P.G. degree in Marketing Management and 58 percent marks in graduation. He has been working in the marketing division of an organization for the past eleven years after completing his post graduate degree. He has secured 55 percent marks in the selection process. He was born on 8th July 1970.

Ans: A

2. Neeta Ghosal was born on 4th May 1974. She has been working in the Marketing division of an organization after completing her post graduate diploma in Marketing Management with 70 percent marks. She has obtained 60 percent marks in graduation and 50 percent marks in the selection process.

Ans: E

3. Suresh Sarkar was born on 15th June 1974. He has secured 55 percent marks in the selection process and 50 percent marks in graduation. He has been working in the Marketing Division of an organization for the past twelve years after completing his post graduate degree in Marketing Management with 75 percent marks.

Ans: D

4.	Sudha Naik was born on 14th April 1973. She has been working in the Marketing Division of an organization as Marketing Manager for the past nine years after completing her post graduate diploma in Marketing Management with 70 percent marks. She has secured 50 percent marks in the selection process and 57 percent marks in graduation.

Ans: B

Directions:

Study the following information to answer the given questions.

Given here are the conditions to become the members of Lions Club. A person must:

(1) be in the age group of 18 to 50 years as on August 3, 1993.

(2) be drawing a minimum salary of Rs.75, 000 per annum.

(3) own a house.

(4) not have a family of more than four members including himself.

(5) have exhibited excellence in any field of arts and sports.
(6) satisfies all the conditions expect (3), the case may be referred to the Club Secretary.

(7) satisfies all the conditions except (4) but draws a salary of 2 lakhs per annum, the case may be referred to the Club President.

On the basis of the above condition and the information provided against each person in the questions given below, decide which of the following courses of action should be taken in case of each person.

Mark answer

(A) if the person is eligible for membership,

(B) if not eligible

(C) if data is inadequate,

(D) if the case is to be referred to the Club Secretary, and

(E) if the case is to be referred to the Club President.

1. Mr. Sujeet Anand a bachelor, with his parents and grandparents lives in a private house owned by him. He is a Senior Manager in a private firm. He is drawing a salary above Rs.2 Lakhs per annum. He has won the States Singles Trophy in badminton. He is 25 years of age.

a) A

b) E

c) C

d) D

Ans: b) E

2. Mrs. Sumita living with her husband, is a senior official in a company receiving Rs.7,000 per month. She has completed 10 years of service in the company on 9th January, 1996.

a) A

b) B

c) C

d) D

Ans: b) B

3. Aparna Banerjee is Branch Manager in a Bank and drawn a salary of Rs. 2,12,000 per annum. She lives in a flat, owned by her, along with her parents, her husband and a daughter. She holds a certificate of excellence in modern arts. Her data of birth is 17 August, 1970.

a) E
b) B
c) C
d) D

Ans: a) E

4. Vivek Chandra is 43 years old. He lives alone in his own house. He works as a Supervisor in a textile mill and earns Rs.10,000 every month.

a) A
b) B
c) C
d) D

Ans: b) B

5. Mr.Pintu Bhagat lives in his own house with his wife and a daughter. He gets a monthly salary of Rs.80,000. He is a good painter and owns a gallery. He is 40 years old.

a) A
b) B
c) C
d) D

Ans: a) A