8. ANALYTICAL REASONING

Practice Exercise - 1

Directions for questions 1 to 3: These questions are based on the following information.

There are 4 people, Sushma, Bhargav, Bharat and Sai. Each of them has exactly two cars of different colors and of different models among Zen, Swift and Ford. Only three colors of cars are available in the market – black, red and green.

Only one car is available of a particular color and model. We further know that
(i)   No green Zen is available in the market.
(ii) Bhargav has green Ford.
(iii) Bhargav has neither red colored car nor a swift.
(iv) Sai has either red or green Ford.
(v)   Bharat does not have a black colored car.

1.   Who has a green Swift?
     (1) Sushma   (2) Bharat
     (3) Sai   (4) Bhargav

2.   Who has a black Swift?
     (1) Sai   (2) Bharat
     (3) Sushma   (4) Bhargav

3.   Which of the following combinations is correct?
     (1) Bharat – green – swift
     (2) Bhargav –red – swift
     (3) Sai – red – Zen
     (4) Sushma – green - swift

Directions for questions 4 and 5: These questions are based on the following information.
Eight boys–Naresh, Lokesh, Bhupesh, Rakesh, Suresh, Dinesh, Mukesh and Prakash are sitting around a circular table with eight chairs. Further, we have the following information about their seating arrangement.
(i)   Rakesh is sitting to the immediate right of Mukesh.
(ii) Dinesh is adjacent to both Lokesh and Prakash.
(iii) Suresh is two places to the left of Mukesh.
(iv) Suresh is next to Lokesh.
(v)   Bhupesh is not next to Prakash.

4.   Who is sitting opposite Naresh?
     (1) Suresh   (2) Bhupesh
     (3) Lokesh   (4) Mukesh

5.   Who is two places to the right of Lokesh?
     (1) Suresh   (2) Bhupesh
     (3) Dinesh   (4) Rakesh

Directions for questions 6 to 8: These questions are based on the following information.

Six boys – Viresh, Naresh, Suresh, Rakesh, Dinesh and Mahesh – are comparing their ages. We have the following information about their ages.
(i)   Only one boy is older than Viresh.
(ii) Naresh is older than only one boy.
(iii) The number of boys younger than Suresh is the same as the number of boys older than Rakesh.
(iv) No two boys are of the same age.

(v)   Dinesh is younger than Mahesh, who in turn is younger than Rakesh.
6.   How many boys are older than Suresh?
     (1) 5   (2) 3   (3) 2   (4) 4
7.   Who is the fourth youngest boy?
     (1) Mahesh   (2) Dinesh
     (3) Suresh   (4) Rakesh
8.   The boy, who is older than Naresh but younger than Mahesh is
     (1) Suresh   (2) Dinesh
     (3) Rakesh   (4) cannot be determined

Directions for questions 9 to 12: These questions are based on the following information.

Four married couples – A, B, C, D, E, F, G and H attended a round table conference. Each husband had his wife sitting to his right.
(i)   wives of C and A were sitting exactly opposite each other.
(ii) E, who is the wife of B, was sitting exactly opposite F.
(iii) E was not sitting adjacent to A.
(iv) G is neither adjacent nor opposite to D.

9.   Who is to the left of A?
     (1)D   (2)G   (3)F   (4)H   (5) C
10. Who is the wife of C?
     (1)D   (2)G   (3)E   (4)H   (5) F
11. If H is opposite to G, then D is to the right of
     (1)A   (2)B   (3)F   (4)H   (5) C
12. If G is a husband, then the person to the left of B is

     (1) A   (2) D   (3) G

     (4) Either (2) or (3)   (5) None

Directions for questions 13 to 16: In a train, seven persons P through V are travelling. They are among Doctor, Actor, Teacher, Engineer, Lawyer, Painter and Singer, not necessarily in the same order. The following

information is known regarding their professions.

I.   S is not teacher.

II.   T is either Engineer or Lawyer.

III. R is neither Teacher nor Actor.

IV.   Q is either a Doctor or an Engineer.

V.   U is either a Singer or Lawyer.

VI.   P is a Lawyer.

13. What is the profession of S?

     (1)Actor   (2) Singer

     (3) Painter   (4) Doctor

14. Who is the Teacher among them?

     (1) Q   (2) R   (3) V   (4) T

15. Who is the Doctor among them?
    (1) S   (2) Q   (3) V   (4) T

16. What is the profession of U?
    (1) Doctor   (2) Teacher
    (3) Actor   (4) Singer

Directions for questions 17 to 21: These questions are based n the following information.

Four boys – Anurag, Madhav, Praveen and Sreenu and four girls - Kavya, Divya, Bhavya and Navya are sitting around a round table such that no two girls are adjacent to each other. We know the following information about their seating arrangement.
(i) Anurag is not sitting opposite Madhav.
(ii) Navya is to the immediate left of Sreenu.
(iii) Praveen and Anurag are adjacent to Bhavya.
(iv) Sreenu is sitting 3 places away to the right of Kavya.

17. Who is to the immediate left of Praveen?
    (1) Divya   (2) Kavya
    (3) Bhavya   (4) Navya
    (5) Cannot be determined

18. Who is two places away to the left of Sreenu?
    (1) Anurag   (2) Madhav
    (3) Praveen   (4) Either (1) or (2)
    (5) Either (2) or (3)

19. Who is sitting to the immediate right of Divya?
    (1) Anurag   (2)Madhav
    (3) Praveen   (4) Sreenu
    (5) Cannot be determined

20. Who is sitting three places away to the left of Divya?
    (1) Madhav   (2) Anurag
    (3) Praveen   (4) Sreenu
    (5) Cannotbe determined

21. Which of the following is true?
    (1) Kavya and Divya are adjacent to Anurag.
    (2) Kavya and Divya are adjacent to Madhav.
    (3) Kavya and Divya are adjacent to Praveen.
    (4) Kavya and Divya are adjacent to Sreenu.
    (5) Kavya and Divya are opposite to each other.

Directions for questions 22 to 24: These questions are based on the following information.

Five persons - Pranay, Ravi, Naveen, Sudeep and Akash are from five different cities – Chennai, Bangalore, Delhi, Goa and Mumbai, not necessarily in the same order. We know the following information.
(i) Pranay is neither from Bangalore nor from Delhi.
(ii) Naveen is either from Mumbai or from Chennai.
(iii) Akash is either from Bangalore or from Goa.
(iv) Sudeep is from Chennai.

22. Ravi is from which city?
    (1) Bangalore   (2) Delhi
    (3) Goa   (4)Mumbai   (5) none

23. Akash is from which city?
    (1) Bangalore   (2)Delhi
    (3) Mumbai   (4)Goa   (5)None of these

24. Pranay is from which city?
    (1) Bangalore   (2) Delhi
    (3) Goa   (4) Mumbai   (5) None

Directions for questions 25 to 27: These questions are based on the following information.

Seven persons - Dinesh, Ganesh, Manish, Naresh, Rajesh, Suresh and Bhupesh are seated in a row, not necessarily in the same order, facing north. We know the following additional information about them.
(i) Ganesh is exactly in between Suresh and Dinesh
(ii) The number of persons to the right of Rajesh is same as the number of persons to the left of Bhupesh.
(iii) Dinesh is to the right of Rajesh.
(iv) Bhupesh is second from the extreme right.
(v) Dinesh is two places away to the left of Naresh.
(vi) Rajesh is to the left of Manish.

25. Who is third from the extreme left?
    (1) Dinesh   (2) Ganesh   (3) Manish
    (4) Naresh   (5) Suresh

26. Find the number of persons between Ganesh and Bhupesh.
    (1) 0   (2)1   (3)2   (4)3   (5)4

27. a) Who is at the extreme right?
    (1) Suresh   (2)Naresh   (3)Manish
    (4) Either (1) or (2)   (5) Either (1) or (3)

    b) Who is at the extreme left?
    (1) Dinesh   (2) Manish   (3) Rajesh
    (4) Suresh   (5) Cannot be determined

Directions for questions 28 to 30: These questions are based on the following information.

Anil, Bittu, Chintu and Drona buy cars of four different colours - green, blue, yellow and pink, and each one of them own a flat of different colors among those, not necessarily is the same order. We also know that:
(I) The person who buys green car also buys yellow coloured flat and Chintu own a pink coloured car.
(II) Drona buys a yellow car.
(III) Neither Anil nor Drona own a blue coloured one and Bittu buys a green flat.
(IV) None of them buy car and flat of the same colour.

28. Who buys the blue car?
    (1) Anil   (2) Bittu
    (3) Drona   (4) Chintu

29. Who among them has a pink flat?
    (1) Anil   (2) Bittu
    (3) Drona   (4) Chintu

30. What is the colour of Chintu's flat?
    (1) Blue   (2) Pink
    (3) Yellow   (4) Green

31. Five boys – A, B, C, D and E sit in a row facing

north, not necessarily in the same order. A sits exactly in between B and D, while C sits exactly in between D and E. Who sits exactly in the middle of the row?

(1) A   (2) C   (3) D   (4) B

Directions (32-35): *Read the following information and answer the questions given below:*

(i) Seven friends P, Q , R , S , T , U and W have gathered at the Mumbai airport. Five of them are scheduled to go to five different places – Delhi, Chennai, Lucknow, Bangalore, and Calcutta.

(ii) Five of them are executives, each specializing in one among Administration (Admn.), Human Resource Management (HRM), Marketing, Systems and finance.

(iii) T, an executive is going to Chennai and is neither from Finance and Marketing.

(iv) W is a system specialist and is leaving for Delhi. U is an executive but is not going to one of the five places.

(v) Q is an executive from HRM but has come at the airport to see him friends.

(vi) P is an executive but not from Marketing and is flying to one of the destinations but not to Bangalore or Calcutta.

32. Who is going to fly to Bangalore?
(1) Data inadequate   (2) R
(3) S   (4) P   (5) None of these

33. Who among the following specializes marketing?
(1) S   (2) P   (3) U
(4) Data inadequate   (5) None of these

34. R has specialization in which of the following fields?
(1) Finance   (2) Marketing
(3) Either Mark or Finance (4) None
(5) None of these

35. The one who is going to fly to Chennai is
(1) Not an executive   (2) From administration
(3) S   (4) from finance   (5) None of these

36. In a row of boys facing north, Ramesh is twelth from his left. When shifted to his right by four places, he becomes eighteenth from the right end of the row. How many boys are there in the row?
(1) 32   (2) 33   (3) 34
(4) Data inadequate   (5) none of these

37. Vikash ranks 16th from the top and 49th from the bottom of the class. How many students are there in the class?
(1) 65   (2) 66   (3) 64
(4) Cannot be found   (5) None

38. In a class of 39 students, the ratio of boys to girls is 2:1. Sirisha ranks 15th among all the students from the top and 8th among girls from the bottom, how many boys are there below Sirisha?
(1) 16   (2) 17   (3) 15
(4) Data inadequate   (5) none of these

39. A, B, C, D, E and F are six friends sitting around a round table. D is to the right of A and B is to the left of C. F - D and B - E are two pairs of persons sitting opposite each other. Who is sitting to the left of F?
(1) A   (2) B   (3) C   (4) E   (5) D

40. P, Q, R, S and T are five speakers who have to speak on a particular day, not necessarily in the same order. R is neither the first nor the last speaker. There are three speakers after S and three speakers ahead of T. If P speaks after Q, then who is the last speaker to speak?
(1) S   (2) T   (3) P
(4) Q   (5) Cannot be determined.

Practice Exercise - II

Directions for questions 1 to 5: These questions are based on the following data.

Eight persons A, B, C, D, E, F, G and H are sitting around a circular table. D is to the immediate right of H. G is not next to either C or E. H is to the immediate right of E, who is sitting opposite to C. F and H are sitting opposite to each other.

1. Who is to the right of F?
(1) C   (2) G   (3) A   (4) B   (5) E

2. Who is sitting two places to the right of H?
(1) A   (2) D   (3) G   (4) B
(5) Cannot be determined.

3. If C and G interchange their places, then who will be sitting opposite to E?
(1) A   (2) D   (3) C   (4) G   (5) D

4. If G is to the immediate left of A, then who is to the immediate left of C?
(1) F   (2) A   (3) B   (4) D
(5) Cannot be determined.

5. Who is sitting opposite to D?
(1) G   (2) C   (3) E   (4) A
(5) None of these

Directions for questions 6 to 10: These questions are based on the following data.

In a round table conference six persons are participating.

They are Anamika, Bhumika, Charika, Deepika, Eronika and Fatima. Bhumika is sitting between Charika and Eronika and is opposite to Anamika. Deepika is sitting to the left of Eronika.

6. Who is sitting opposite to Deepika?
    (1) Anamika   (2) Bhumika   (3)Charika
    (4) Fatima   (5) Eronika

7. Who is sitting to the left of Bhumika?
    (1) Charika   (2) Eronika   (3) Deepika
    (4)Anamika   (5) Cannot be determined.

8. If Eronika interchanges her place with the person sitting opposite to Bhumika, then who sits to the right of Fatima?
    (1) Anamika   (2) Charlie   (3)Bhumika
    (4) None of these   (5) Cannot be determined

9. If each person interchanges her place with the person sitting opposite, then who is sitting to the right of Charika?
    (1) Eronika   (2) Bhumika   (3) Anamika
    (4) Fatima   (5) Deepika

10. If Anamika interchanges her place with Deepika, Fatima with Eronika and Bhumika with Charika, then which of the following statements is true?
    (1) There are two persons sitting between Bhumika and Deepika.
    (2) Eronika is sitting to the right of Fatima.
    (3) Deepika and Charika are sitting opposite to each other.
    (4) Fatima is to the left of Anamika.
    (5) Charika is to the left of Deepika.

Directions for questions 11 to 15: These questions are based on the following data.

Four fathers attended a roundtable conference with their daughters. Every father sits to the right of his daughter. P, Q, R and S are fathers and T, U, V and W are daughters. Q - U and R - V are two father and daughter pairs. S does not sit next to V. T sits to the left of P, who sits opposite S.

11. Q sits between _____.
    (1) U and V   (2) T and U   (3) U and S
    (4) W and T   (5) U and W

12. Who sits to the right of W?
    (1) S   (2) Q   (3) R
    (4) P   (5) Cannot be found

13. If P interchanges his place with the person who sits opposite to R disregarding the condition that father and daughter sit together, then who sits to the right of U?

    (1) T   (2) Q   (3) P
    (4) R   (5) None of these

14. If every father interchange his position with the person sitting opposite to him, then who sits between S and R?
    (1) T   (2) U   (3) V   (4) W   (5) P

15. Who sits between P and Q?
    (1) T   (2) U   (3) V   (4) W   (5) R

16. Eight persons A through H, are sitting around an octagonal table, according to the following conditions.
    (i)   A is sitting to the right of F.
    (ii) E is adjacent to D and A.
    (iii) B is sitting to the right of H.
    (iv) G is sitting opposite A and B is sitting opposite D.

    Which of the following is true?
    (1) A is sitting adjacent F and H.
    (2) F is sitting adjacent of C.
    (3) C is sitting between D and G.
    (4) Either F or C is sitting opposite E.
    (5) E is sitting between C and D.

Directions for questions 17 to 21: These questions are based on the following information.

Each of the four friends – A, B, C and D are from four different cities – Ahmedabad, Bangalore, Hyderabad and Kolkata and have one car each among - Ferrari, Ritz, Honda city and Zen, not necessarily in the same order. We know the following additional information.
(i)   B is neither from Kolkata nor does he have Zen.
(ii) C does not have Honda city.
(iii) D has Ferrari but is not from Kolkata.
(iv) A is from Ahmedabad.
(v)   The person from Kolkata does not have Zen and the person from Hyderabad does not have Honda city.

17. B is from which city?
    (1) Ahmedabad   (2) Bangalore
    (3) Hyderabad   (4) Either (1) or (2)
    (5) Either (2) or (3)

18. The person from which city has Honda city?
    (1) Bangalore   (2)Kolkata
    (3) Ahmadabad   (4) Either (1) or (2)
    (5) Either (2) or (3)

19. Who has Zen?
    (1) B   (2) C   (3) A
    (4) Either (1) or (2)   (5) cannot be determined

20. Which of the following combinations is true?
    (1) C - Kolkata - Zen

(2) C - Bangalore - Ritz
(3) C - Kolkata - Ritz
(4) B - Hyderabad – Honda city
(5) B - Bangalore - Ritz

21. Who is from Hyderabad?
(1) B   (2) D   (3) C
(4) Either (1) or (2)   (5) Either (1) or (3)

Directions for questions 22 to 26: These questions are based on the following information.

Eight persons - Chiru, Venky, Nag, Balayya, Mahesh, Pavan, NTR and Ram are sitting in a row, not necessarily in the same order, facing the same direction. We know the following information about their seating arrangement.
(i) Only Chiru is sitting between Venky and Nag.
(ii) The number of persons who are sitting between Mahesh and Pavan is four.
(iii) The number of persons to the right of NTR is same as the number of persons to the left of Ram.
(iv) Balayya is to the immediate left of Pavan.
(v) NTR is two places away from Nag.

22. Who is the third person from the left?
(1) NTR   (2) Venky   (3) Nag
(4) Pavan   (5) Cannot be determined

23. Who is sitting to the immediate right of Venky?
(1) Balayya   (2) Chiru   (3) Mahesh
(4) Pavan   (5) Cannot be found

24. If Mahesh and Pavan interchange their positions, then who will sit to the immediate right of Mahesh?
(1) Nag   (2) NTR   (3) Venky
(4) Balayya   (5) Ram

25. What is the number of persons sitting between Chiru and Pavan?
(1) 5   (2) 4   (3) 3   (4) 2   (5) 1

26. Who is sitting at the extreme right end?
(1) Balayya   (2) Mahesh
(3) Pavan   (4) NTR   (5) Ram

Directions for questions 27 to 31: These questions are based on the following information.

Six girls - Trisha, Illiyana, Jenelia, Anushka, Samanta and Shreya from six cities - Ahmedabad, Bangalore, Calcutta, Lucknow, Hyderabad and Delhi, not necessarily in the same order, are sitting in a row facing the same direction.
(i) Samanta is to the left of Illiyana, who is to the immediate left of the person from Ahmedabad.
(ii) The number of persons to the left of Shreya is same as the number of persons to the right of Trisha.

(iii) Anushka is three places away from Illiyana and Shreya is to the immediate left of the person from Hyderabad.
(iv) The person from Ahmedabad is three places away to the right of the person from Delhi. The person from Calcutta is to the immediate left of the person from Bangalore.
(v) Jenelia is from Ahmedabad and Illiyana is from Bangalore. Shreya is second from the extreme right.

27. Who is from Hyderabad?
(1) Samanta   (2) Trisha   (3) Anushka
(4) Either (1) and (2)   (5) Either (1) or (3)

28. Who is sitting to the immediate left of the person from Calcutta?
(1) Illiyana   (2) Samanta
(3) Trisha   (4) Anushka   (5) Jenelia

29. Who is from Lucknow?
(1) Samanta   (2) Trisha   (3) Anushka
(4) Shreya   (5) Cannot be determined

30. Who is to the immediate right of Trisha?
(1) Shreya   (2) Jenelia   (3) Samanta
(4) Illiyana   (5) Anushka

31. What is the number of girls between Samanta and Anushka?
(1) 0   (2) 1   (3) 2   (4) 3   (5) 4

Directions for questions 32 to 36: These questions are based on the information given below.

P, Q, R, S, T and U are six members of a family. P is the mother of Q, who is the husband of S. U is the brother of one of the parents of R. S is the daughter-in-law of T and has no siblings. R is the son of S.

32. How is R related to P?
(1)Nephew   (2)Son-in-law
(3)Grandson   (4) Father

33. How is U related to S?
(1) Cousin   (2) Brother-in-law
(3) Brother   (4) Father

34. How is T related to U?
(1) Mother   (2) Mother-in-law
(3) Father   (4) Father-in-law

35. If U is married to V, then how is V related to Q?
(1) Sister   (2) Sister-in-law
(3) Cousin   (4) Mother

36. How many Female members are there in the family?
(1) 2   (2) 3   (3) 4   (4) 5

Directions for questions 37 to 40: These questions are based on the information given below.

A family of eight persons has three married couples. A is the grandmother of C and is the mother-in-law of F. H is the daughter of B, who is the brother of G. D is the only child of G & is the mother of C. E is the wife of B.

37. How is G related to H?
    (1) Uncle   (2) Father
    (3) Brother   (4) None of these

38. How is H related to D?
    (1) Sister   (2) Daughter
    (3) Cousin   (4) Mother

39. D's mother is
    (1) E   (2) A   (3) H   (4) F

40. Who is the father of F?
    (1) G   (2) B   (3) C   (4) Data insufficient

Directions for questions 41 to 45: These questions are based on the information given below.

There are five persons: P, Q, R, S and T. One is a tennis player, one is a cricketer and one is a hockey player. P and S are unmarried ladies and do not participate any game. None of the ladies plays cricket or tennis. There is a married couple in which T is the husband. Q is the brother of R and is neither a cricketer nor a hockey player.

41. Who is the tennis player?
    (1) P   (2) Q   (3) R   (4) S   (5) T

42. Who is the hockey player?
    (1) P   (2) Q   (3) R   (4) S   (5) T

43. Who is the cricketer?
    (1) P   (2) Q   (3) R   (4) S   (5) T

44. Who is the wife of T?
    (1) P   (2) Q   (3) R   (4) S
    (5) data insufficient

45. Who are the three ladies?
    (1) P, Q & R   (2) Q, R & S
    (3) P, Q & S   (4) P, R & S
    (5) None of these

Analytical Reasoning: Exercise-1																
1	2	6	1	11	4	16	4	21	5	26	3	31	3	36	2
2	1	7	1	12	2	17	1	22	2	27	2,4	32	1	37	3
3	1	8	2	13	1	18	2	23	1	28	2	33	3	38	2
4	1	9	3	14	3	19	3	24	3	29	3	34	4	39	3
5	2	10	4	15	2	20	1	25	2	30	1	35	2	40	3

Analytical Reasoning: Exercise-2																		
1	2	6	3	11	2	16	2	21	2	26	5	31	5	36	1	41	2
2	5	7	2	12	1	17	2	22	3	27	3	32	3	37	1	42	3
3	4	8	4	13	3	18	1	23	1	28	2	33	2	38	3	43	5
4	3	9	4	14	1	19	3	24	5	29	4	34	3	39	2	44	3
5	1	10	3	15	1	20	3	25	4	30	4	35	2	40	4	45	4