Data Interpretation

CASELET 1:

Mr X has built a mansion with 10 rooms. He was confused about the colours he should use while painting each room. He had the following choice of colours: blue, hazy grey, jumping yellow, teal, violet latte, Terry Cherry and happy pink. It was also known that he could paint more than 1 room with a single colour. Finally, he set up an algorithm to decide the colours that he would be using.

(i) If he painted any room teal, then he did not paint any other room happy pink.

(ii) If he painted any room blue, then he did not paint any other room jumping yellow.

(iii) If he painted any room blue, then he painted at least one room happy pink.

(iv) If he painted any room jumping yellow, then he painted at least one room violet latte.

(v) If he painted any room violet latte, then he painted at least one room happy pink.

(vi) if he painted any room happy pink, then he painted at least rooms happy pink.

1) Which one of the following could be a complete list of the number of rooms and colours that Mr X used to paint some of the rooms of his house?

a) one blue, one Terry cherry, one violet latte, two happy pink

b) one blue, one teal, one Terry cherry, three happy pink

c) two blue, one teal, three Terry Cherry

d) one jacket, one Terry cherry, two violet latte and one happy pink

2) If Mr. X did not paint any room happy pink, what was the maximum number of the different types of colours that he could paint ?

a) two

b) three

c) four

d) five

3) Which one of the following statements must be false?

a) Mr. X painted exactly four rooms with colours, one of which was a hat.

b) Mr. X painted exactly three rooms with colours, one of which was a happy pink.

c) Mr. X painted exactly four rooms with colours, one of which was a blue.

d) None of these

4) If Mr. X painted as many different types of colours as possible, then it must be true that he did not paint one of the following types of colours.

a) blue

b) hazy grey

c) teal

d) jumping yellow

5) If Mr. X painted at least one room, find out which one of the following are the minimum and the maximum numbers of the types of colours that he could paint ?

a) 1, 4

b) 1, 5

c) 1, 6

d) 2, 5

CASELET 2

It's Valentine's Day and five boys Amit, Bhuvan, Chetan, Dilip and Ehsaan are buying flowers for their respective girlfriends.

Each of these boys has a preference from 1 to 5 (1 being first preference, it is given the first rank) of flowers among orchid, rose, carnation, gerbera and daffodil.

There is a level of dissimilarity between the five boys and this is measured as the sum of the differences in the ranks assigned by them to each of these 5 flowers. The greater this difference, the more dissimilar the persons.

The following table indicates the preferences of each of these five boys

	AMIT	BHUVAN	CHETAN	DILIP	EHSAAN
ORCHID	2	5	1	4	1
ROSE	4	2	3	3	3
CARNATION	3	1	4	2	2
GERBERA	5	4	5	1	4
DAFFODIL	1	3	2	5	5

6) The pair of persons who are the most dissimilar among the following is:

a) Amit- Bhuvan

b) Bhuvan- Dilip

c) Dilip- Ehsaan

d) Chetan- Ehsaan

7) Who among the following is most similar to Amit?

a) Bhuvan

b) Chetan

c) Dilip

d) Ehsaan

8) Which of the following pairs are the least dissimilar among the five?

a) Dilip-Ehsaan

b) Amit- Chetan

c) Chetan-Ehsaan

d) Amit- Ehsaan

9) For the person who's second preference is Rose, what is the level of dissimilarity with the one who's fourth preference is orchid?

a) 8

b) 6

c) 10

d) 12

10) What is the level of dissimilarity between Amit and Ehsaan?

a) 6

b) 8

c) 4

d) 10

CASELET 3

The two pie charts below show the percentage market share on value basis of the companies A to D and others in a sectorial market for 1999 and 2000

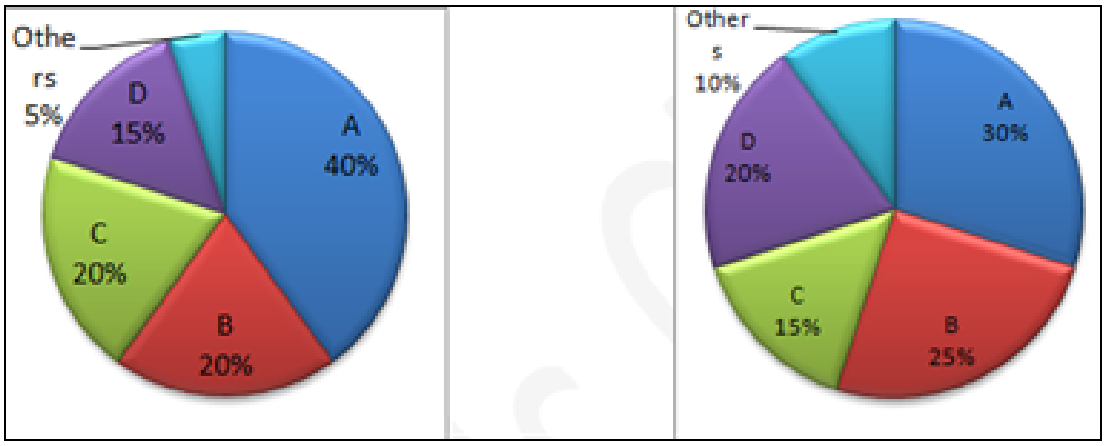


FIGURE 1: YEAR 1999 FIGURE 2 : YEAR 2000

Market size 1999= 150 crore Market size 2000= 375 crore

11) Which company had the minimum growth in sales in these two years?

a) B

b) A

c) C

d) Others

12) If each company increases its sales value by 10%, then what is the percentage growth of the detergent market?

a) 10%

b) 20%

c) 30%

d) 8%

13) If the total sales of the market is doubled for 1999 and 2000, what would be the ratio of sales of D for 2000 to 1999?

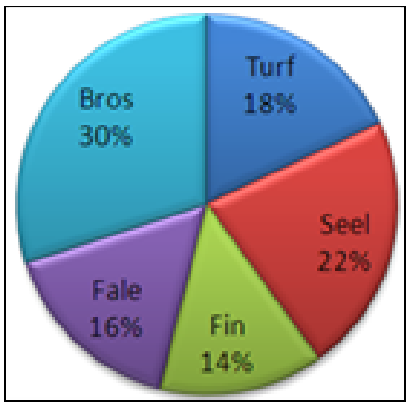
a) 2:1

b) 3:4

c) 15:8

d) 10:3

Additional data for questions 14 to 16



Product share of sales turnover for A in 1990

14) What is the market share of Bros in the market in 1999?

a) 7.5%

b) 12%

c) 9%

d) cannot be determined

15) Which company has the highest profit percentage in 2000?

a)A

b) B

c) C

d) cannot be determined

16) If the expenditure of C is growing at the rate of 10% per annum, what is the profit percentage in 2000 (Assume profit =25%)?

a) 404%

b) 304%

c) 379%

d) 275%

CASELET 4

On a playing ground, Ariya, Amita, Binoy, Shama and Payal are standing as described below facing the North.

(i) Amita is 40 metres to the right of Shama.

(ii) Ariya is 60 metres to the south of Amita.

(iii) Binoy is 25 metres to the west of Shama.

(iv) Payal is 90 metres to the north of Ariya.

17) Who is to the north-east of the person who is to the left of Amita ?

a) Binoy

b)Shama

c)Ariya

d)None of these

18) If a boy walks from Binoy, meets Shama followed by Amita, Ariya and then Payal, how many metres has he walked if he has travelled the straight distance all through?

a) 215 metres

b)185 metres

c) 155 metres

d) 245 metres

19) Who is to the south of the person who is to the north-east of Shama?

a) Ariya

b) Binoy

c) Amita

d) both a &c

CASELET 5

Eight years ago, Yellow was half as old as Green will be when Green is one year older than Blue will be at the time when Yellow will be five times as old as Blue will be 2 years from now.

Ten years from now Blue will be twice as old as Green was when Yellow was nine times as old as Blue.

When Blue was one year old, Yellow was three years older than Blue will be when Green is three times as old as Yellow was six years before the time

when Green was half as old as Blue will be when Yellow will be ten years older than Yellow was when Green was 1/3 rd as old as Blue will be when Yellow will be three times as old as she was when Green was born.

20) How old is Blue?

a) 4

b) 6

c) 2

d) none of these

21) How old will Green be 10 years from now?

a) 17

b) 8

c) 18

d) none of these

22) How old would have Yellow been 6 years ago?

a) 15

b) 8

c) 9

d) none of these

CASELET 6

After the 2nd MOCK CSAT, Seven friends – Charles, David, Hanish, Kedar, Mahoud, Ninja and Raul are comparing their scores in this exam. We know the following information about their scores.

(a) All of them had distinct scores.https://www.freshersnow.com/entrance-exams/

(b) Kedar scored the same marks as the average of the marks scored by Charles and David where Charles scored more marks than David.

(c) Both Mahoud and Ninja scored less marks than Hanish but more than Raul and the marks scored by Raul is not the least

(d) The number of persons who scored more marks than Kedar is same as the number of persons who scored less marks than Kedar.

(e) Charles scored less marks than Mahoud.

23) Among them who scored the second highest marks?

a) Ninja

b) Mahoud

c) Chandru

d) Cannot be determined

24) Among them who scored the second lowest marks?

a) Charles

b) Raul

c) Ninja

d) Cannot be determined

25) How many people scored more marks than Charles?

a) 5

b) 4

c) 3

d) 2

26) Whatis the number of persons whose scores are in between the scores of Ninja and David?

a) 3

b) 2

c) 1 D) 0

d) 0

27) Which of the following is true?

a) Ninja scored more than Mahoud.

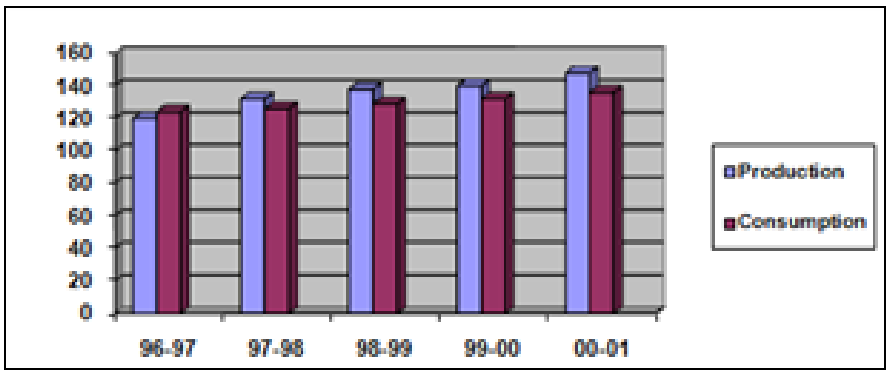
b) David scored more than Ninja.

c) Raul scored more than Kedar

d) Ninja scored more than David.

CASELET 7

The given figure shows the production and consumption of Ragi in India over a period of 5 years.



28) If surplus ragi available each year was exported, what % of the ragi produced between the years ’97-98 and ’00-01 was exported?

a) 15%

b) 10%

c) 6%

d) none of these

29) Between the years ’96-97 and ‘00-01,the following can be said about the cumulative production and consumption of ragi

a) Cumulative production of ragi exceeded that of consumption by 18 lac tones

b) Cumulative consumption of ragi was 89% of the cumulative consumption of ragi during this period.

c) Cumulative production of ragi exceeded cumulative consumption of ragi by 4.7% during this period.

d) Consumption of ragi never exceeded the production of ragi during this period.

30) Which of the following statements are true?

I) The YOY rate of growth of production of ragi has been greater than the YOY rate of growth of consumption of ragi during the period 97-98 to 00-01

II) The CAGR rate of growth of productionof ragi has been greater than the CAGR rate of growth of consumption of ragi during the period 97-98 to 00-01

III) The amount of ragi exported in a given year was greater than the previous year during all the years in the period 97-98 to 00-01

a) I only

b) I and II only

c) III only

d) II only

31) What was the % rate of growth in production of ragi between the period 99-00 and 00-01?

a) 4.05%

b) 5.71%

c) 1.67%

d)10%

32) Which of the following years witnessed a two digit rate of growth of ragi?
I) 97-98 II) 99-00 III) 00-01

a) I only

b) I and II

c) I and III

d) none of these

CASELET 8

The International Kabbadi League (IKL) was formed last month to give a boost to the game at international standards.

It had a tournament, where 2 teams played some matches. Each team comprised of 7 players each.

The listings of the 2 teams X and Y were lost, but certain details regarding the players were available. A,B,C,D,E,F,G,H,I,J,K,L,M and N are the players.

D and E were in Team X, K and G were in team Y.

H and B were in the same team, but not in the team in which F was.

The sum of the scores of members of Team Y was not greater than 115.

The table containing the details of the players and their scores is below

A	B	C	D	E	F	G	H	I	J	K	L	M	N
28	12	29	10	9	11	13	14	22	28	16	20	18	15

33) Which of these players was definitely in Team Y?

a) L

b) M

c) N

d) None of these

34) If the score for team Y was less than 110, what could be the score of team X?

a) 135

b) 137

c) 139

d) cannot be determined

35) Which of these players could not be in team Y, if the score of Y was 115?

a) A

b) L

c) M

d) N

36) Which of these players was definitely in team X, if the score of Y was 112?

a) I

b) L

c) M

d) N

37) Which of these players are definitely in Team X?

a) F

b) H

c) B

d) none of these

CASELET 9

To assess the SOPS handed out in the Union budget during a prime time program, a news channel must choose 2 GDA members and 2 RGP members. At least one should be an economist and at least one should be an industrialist. The GDA members are A,B,C,D and E, RGP members are F,G,H and I. C,F, and G are economists. D and I are industrialists. F and C are at loggerheads, and will not appear together. F will take part only if A takes part. D refuses to participate if G is present and E refuses to participate if I is present.

38) Which of the following is not an acceptable panel?

a) F,H,A,D

b) G,H,A,C

c) H,I,B,C

d) F,I,A,D

39) How many acceptable panels can be put together?

a) 9

b) 5

c) 10

d) 11

40) Which of the nine members in the panel will feature in the greatest number of different acceptable panels?

a) C

b) F

c) A

d) I

41) If A and B are chosen as the GDA members, then who will represent the panel from the RGP party?

a) F and I only

b) G and H

c) G and I only

d) a or c

CASELET 10

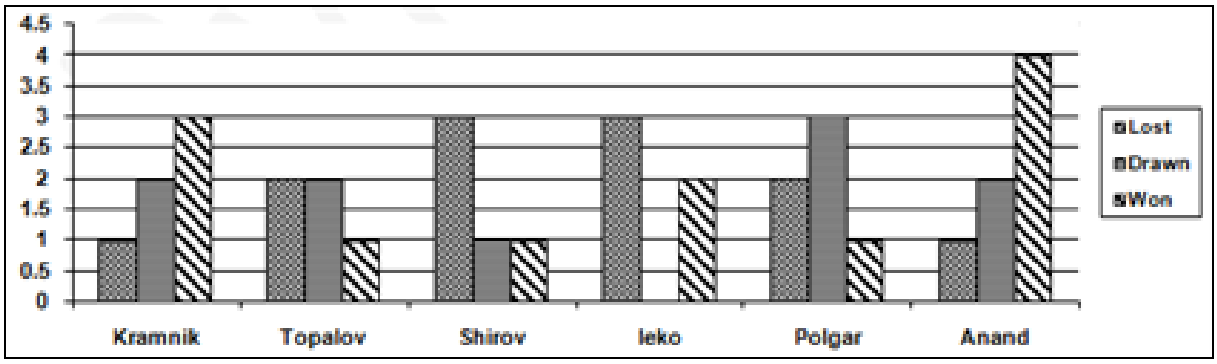
Six players, Kramnik, Topalov, Shirov, Leko, Polgar and Anand participate in a chess tournament.

In the first round, each player plays one match against every other player. The winning player is awarded 3 points and the losing player gets 1 point.

In case of a draw, each player is awarded 2 points. The player with the highest number of points enters the final.

The semifinal is played between the next two players. The winner of the semifinal enters the final. The winner of the finals is declared the champion.

There can be no draws in the final and the semifinal. The results of all the matches played by the players at the end of the tournament are given below.



42) Who is the champion?

a) Kramnik

b) Topalov

c) Leko

d)Anand

43) The semifinal is played between players

a) Kramnik and Topalov

b) Topalov and Polgar

c) Kramnik and Anand

d) Polgar and Anand

44) Find the points of the semifinalists before the semifinal

a) 9,10

b) 10,10

c)10,11

d)11,11

45) Which two players played the final?

a) Kramnik and Topalov

b) Topalov and Leko

c) Kramnik and Anand

d)Topalov and Anand

46) Which of the following is/are true?

I. The top three rankings at the end of the tournament are the same as those at the end of the first round.

II. Anand won the maximum number of matches in the first round.

III. Kramnik has the highest number of points at the end of first round.

a) I only

b) II only

c) III only

d) I, II and III

CASELET 11

The Poolside chess club management had misplaced the order of it's annual winners from 2001 to 2005, among Pavan, Bishu, Rahul, Arti and Gavin.

When 5 of the regular staff (A,B,C,D,E) in the club were questioned about the winners, each gave their respective orders as shown in the table.

When the records were finally retrieved, the management, out of sheer exuberance, decided to reward the staff as follows. If any of the staff had named all 5 in the right order he would get Rs 10000 as cash prize. If the staff names "n" out of all 5 years correctly, he will get (n+1) thousand Rupees as cash. It was found that each staff won a different amount of money

47) Who won the chess tournament in 2003?

a) Pavan

b) Gavin

c) Arti

d) none of these

48) How many of the staff correctly mentioned the winner of 2003 ?

a) 1

b) 4

c) 0

d) 3

49) Who won the least amount as reward?

a)A

b) D

c) B

d) C

50) Who won the chess tournament in 2001?

a) Arti

b) Rahul

c) Bishu

d) cannot be determined

51) How much was the middle amount won as reward money?

a) 2000

b) 4000

c) 1000

d) none of these

CASELET 12

Students have applied for a graduation programme to the following universities in the U.S. through a centralized admission process for foreign education : Carnegie Mellin University(CMU), Georgia Tech University(GTu), Penn State University(PSU), Michigan Ann Harbour(MAH), Cornell(COR), University of Pensylvania(U-Pen), Michigan State University(MSU), Indianapolis Sate University(ISU), and California State University(CSU).A list of eleven short-listed students has been forwarded to all the universities. Each university has prepared a consolidated list based on the following guidelines:

The percentage of marks obtained in the 10th, 11th and 12th are counted as points for the respective exams.

First, second and third preferences have been given 15, 10 and 5 points respectively. Points for the SAT test are equal to the equivalent score given.

If a candidate has done project work at the national level, he/she will be awarded 5 additional points.

Only one applicant can be selected for each university.

An applicant can take admission only in a university to which he has given preference.

If a candidate is eligible for more than one university, he will be chosen by the order of preference.

The candidate with the highest points is given priority for getting admission to a university.

If two or more candidates have the same points, the person who has given higher

preference to the University will be given priority and if that is also the same then the person who has done a national level project will be given priority.

Sr. No.	Name	% Marks in 10th	% Marks in 11th	% Marks in 12th	Done National Level Project	SAT Equivalent Score	Preferences		
							I	II	III
1	Abdul	60	70	80	No	29	CMU	ISU	MSU
2	Badshah	65	60	60	No	26.5	CMU	PSU	U-Pen
3	Carim	70	75	65	Yes	19	PSU	CSU	COR
4	Dawood	45	60	65	No	33	MAH	CMU	ISU
5	Ejaj	80	60	70	Yes	24	ISU	MSU	CMU
6	Farah	85	75	65	No	27.5	CMU	U-Pen	PSU
7	Gulnashin	70	80	50	Yes	25	PSU	U-Pen	MAH
8	Hasan	70	70	55	No	35	GTU	U-Pen	ISU
9	Iqbal	75	70	65	No	29	GTU	COR	ISU
10	Javed	60	80	70	No	24	COR	GTU	PSU
11	Kabir	75	75	75	Yes	27.5	GTU	U-Pen	CSU

52) Iqbal has gained admission to which university?

a) COR

b) GTU

c) ISU

d)None of these

53) What is the total number of candidates who have gained admission to universities in the U.S.?

a) 8

b) 9

c) 10

d) 11

54) Who got admission to U-Pen?

a) Kabir

b) Gulnashin

c) Farah

d) Badshah

55) How many candidates have gained admission to a university which was not their first preference?

a) 0

b) 1

c) 2

d) 3

56) How many universities were left without eligible candidates?

a) 0

b) 1

c) 2

d) 3

CASELET 13

In a standard 5 class, the students are arranged according to the increasing order of their marks in an examination. The marks obtained by every student, starting from the third student, are the sum of the marks obtained by the earlier two students.

57) If the 12th student got 809 marks and the 2nd student got 6 marks, then what is the sum of the marks obtained by the first ten students?

a) 815

b) 803

c) 800

d) Cannot be determined

58) If the 3rd student got 10 marks and 5th student got 26 marks, then how many marks does the 12th student get?

a) 754

b) 466

c) 1220

d) Cannot be determined

CASELET 14

Each of the five friends – A, B, C, D and E met at a party. They live in different cities among – Delhi, Mumbai, Bangalore, Chennai and Hyderabad and work in different companies among – Infotec, Quetec, Rototec, Simotec and Tetratec, not necessarily in the same order. We know the following information about them.

(a) A lives in Delhi but does not work in Quetec.

(b) C works in Tetratec.

(c) The person, who lives in Bangalore, works in Simotec

(d) Neither D nor B lives in Chennai.

(e) B works in Infotec and E lives in Hyderabad.

59) Who lives in Mumbai?

a) B

b) D

c) E

d) Either (A) or (B)

60) Which company does D work in?

a) Quetec

b) Rototec

c) Simotec

d) Either (A) or (B)