CAREER LAUNCHER

…...D/I KE DUS AVTAAR……

1. TABLE-FILLING

DIRECTIONS for Question 1 to 4 Answer the questions on the basis of the information given below::

In a multiplex, there are four auditoriums namely A1, A2, A3 and A4 where the movies are screened and there are six digital projectors namely P1, P2, P3, P4, P5 and P6 which are used to screen the movies. On a particular day, six movies namely Taking Lives, Bad Boys, Torque, Red Devil, Shawshank Redemption and Italian job are to be screened at the multiplex. Table 1 gives information about the digital projectors and the movies that they can screen and Table 2 gives information about the scheduling of movies on a particular day. In table 2, the partial information regarding the movies screened or the projector used is given.

Table 1

Movies	Taking Lives	Bad Boys	Torque	Red Devil	Shawshank Redemption	Italian Job
Digital Projector	P1,P2	P2, P3	P3,P4	P4,P5	P5,P6	P6, P1

Table 2

Time Slots	A1	A2	A3	A4
9 am-11am	Taking lives	P3		Italian Job
11am-1pm				P3
1pm-3pm	P2		P6	
3pm -5pm	Torque	P1	Red Devil	P2
5pm-7pm		Taking Lives	P4	Taking lives
7pm-9pm	Shawshank Redemption	P6		

- All movies are screened once in each of the auditorium that day.
- Every digital projector is used once to display the movie in each of the auditorium.
- A projector can screen movie in only 1 auditorium in a given time slot.

1. Which movie is screened in A4 in the 7pm-9pm time slot?
   1. Shawshank Redemption
   2. Taking Lives
   3. Red Devil
   4. Torque

2. Which projector is used in A3 in the 7pm-9pm time slot?
   1. P3   2. P2   3. P1   4. P5

3. In how many time slots the same movie is screened in two or more auditorium?
   1. Four   2. Three   3. Two   4. Five

4. How many projectors are used for consecutive three time slots?
   1.One   2. Two   3. Zero   4. Three

DIRECTIONS for Question 5 to 8: Answer the question on the basis of the information given below.

To estimate the Point Index (PI) of each of the three sports drinks Gatorade, Red Bull and 180; their sales were studies in different months of the year 2005. For each month, PI of drink is defined as the product of the number of cans sold and the points awarded to it (based on sales) in that month.

Point System	
Number of Cans sold in a month	Point Awarded
Less than or equal to 5	2
Greater than 5 and less than or equal to 8	3
Greater than 8 and less than or equal to 12	4
Greater than 12	5

The number of cans sold in the year 2005 is as follow.

Sales of sports drinks			
Month	Gatorade	Red Bull	180
January	7	8	
February		6	
March	6	4	
April		4	
May	9	6	15
June	12	10	15
July		11	15
August		15	15
September			
October			
November			
December			

Some additional information regarding the sales of these sports drinks in 2005 in given below

(1) The number of cans of Gatorade sold in February, April and July forms an increasing Geometric progression. The sum and product of this progression is 28 and 512 respectively.

(2) For Gatorade, the number of cans sold in August is equal to the total number of cans sold in the months of February and March.

(3) For the months of September, October, November and December; the number of cans sold every month for Gatorade is same and this holds true for Red Bull and 180 also.

(4) The aggregate of the number of cans sold from September to December (both inclusive) is equal to the aggregate of cans sold in the remaining months. This is true for Gatorade and Red Bull only.

(5) For 180, the number of cans sold in each of the first four months is same and lies between 5 and 8(both exclusive).

(6) The average of P1 of 180 for all the 12 months of 2005 is 43 and the number of cans sold for each of the three drinks in each of the months is non-zero.

5. What is average of P1 of 180 from January 2005 to August 2005?
    (i) 46.5   (ii) 50   (iii) 10.5   (iv) 39

6. Comparison Index of a month defined as the ratio of the number of cans of 180 sold to the sum of the total number of cans of Red Bull and Gatorade sold in that particular month. For which of these months, the value of comparison index was 0.5?
    (i) August, 2005   (ii) July, 2005   (iii) February, 2005   (iv) April, 2005

7. Refer the question No. 6, what is the difference between the maximum and minimum values of comparison index across the 12 months in 2005?

(i) 0.74   (ii) 0.64   (iii) 0.44   (iv) 0.26

8. What is the minimum percentage decrease in the sales of any one of any of the given sports drinks in a month over previous month in 2005?

(i) 37.5%   (ii) 25%   (iii) 20%   (iv) 33.33%

DIRECTIONS for Question 9 to 12 Answer the question on the basis of the information given below:

The table below had given the current point's tally of various football clubs at a certain stage of the English Premier League.

- 3 Points are awarded for a win
- 1 point is awarded for a draw.
- No points are awarded in case of a loss.

Additional Information:

I. West Ham United and Middlesbrough suffered equal number of losses.

II. The number of matches played by Blackburn Rovers is three times the number of matches won by Middlesbrough.

III. Number of losses suffered by Blackburn Rovers is the same as the number of draws managed by Sunderland.

IV. Manchester City played the same number of matches as Sunderland, but the number of Wins, Losses and draws of those of Manchester City are consecutive integers in ascending order.

V. The number of wins by Tottenham is equal to its number of losses, but for New Castle, the number of wins is twice that of its losses.

	P	W	L	D	T(Total)
New Castle	19				31
Tottenham	20				24
Chelsea	19		5	6	
Blackburn Rovers		5		5	
Manchester City			6		
Manchester United		4	7		20
Liverpool	20			5	32
West Ham United		6		4	
Arsenal	20		7		35
Sunderland	18				26
Middlesbrough	20	7		4	25
Fulham		7	9		26

'P' - Number of matches played, 'D' - Number of draws, 'L'- Number of losses, 'T' - Total Points, 'W' - Number of wins.

9. Which teams among the following had the same number of wins?

1. Sunderland, West Ham United, Manchester United

2. Tottenham, Manchester City, Sunderland

3. Sunderland, Blackburn Rovers, Manchester City

4. None of these

10. Which team had suffered the maximum number of losses till this stage of the competition?

(i) Middlesbrough   (ii)   Manchester City

(iii) Fulham   (iv)   None of these

11. Irrespective of the number of games played, ranking is done on the basis of the number of points for each team. In the case of a clash between the teams with equal points, higher rank is given to the team with more number of wins. Assume that the team with highest number of points gets the highest number of points gets the highest rank, that is, rank 1; then which team was ranked 6 at this stage of the competition?

(i) Sunderland   (ii) Fulham   (iii) Manchester City   (iv) Tottenham

12. Which teams hold the distinction of having the highest aggregate of draws and losses?

(i) Manchester United & Blackburn Rovers   2. Chelsea & Tottenham

(iii) Blackburn Rovers & Tottenham   4. West Ham United &   Blackburn Rovers

2. STATEMENT / CONCLUSIONS

DIRECTIONS for Questions 1 to 4:-   Answer the questions on the basis of the information given below.

Following table shows the performance points (out of hundred) given by three board members:- Vice President, CEO and CFO in a board meeting, towards the salary increment of four employees:- Mr. Mehta, Mr. Singh, Mr. Aggarwal and Mr. Jain. In order to avoid any partiality, the names of the employee were disguised as W, X, Y and Z in no particular order. The employee who got the highest total points had maximum increment in his salary.

Board Members	Employee W	Employee X	Employee Y	Employee Z
Vice-President	59	92	71	87
CEO	84	72	84	68
CFO	77	71	85	70

In spite of the secrecy maintained, some information leaked out.

➢ CEO gave maximum points to Mr. Mehta.

➢ Difference between the total points given to Mr. Singh and Mr. Aggarwal is 5.

1. If the person getting minimum points from CFO is not Mr. Jain, then Which of the following is definitely true?

1. Vice President gave minimum points to Mr. Mehta

2. CEO gave maximum points to Mr. Singh

3. CFO gave maximum points to Mr. Mehta

4. None of the above.

2. What can be said regarding the following two statements?

Statement 1: Vice-President gave maximum points to Mr. Aggarwal

Statement 2: CFO gave maximum points to Mr. Singh

1. If one of the statements is correct, the other is necessarily correct.
2. If one of the statements is correct, the other is necessarily false.
3. If statement 1 is false, statement 2 is necessarily true.
4. None of the above

3. What can be said regarding the following two statements?

Statement 1: CFO gave minimum points to Mr. Singh
Statement 2: Vice-President gave maximum points to Mr. Jain.

1. If statement 1 is true then statement 2 is necessarily true.
2. If statement 2 is true then statement 1 is necessarily true.
3. If statement 1 is true then statement 2 is necessarily false.
4. If statement 2 is false then statement 1 is necessarily true.

4. What can be said regarding the following two statements?

Statement 1: CEO gave minimum points to Mr. Jain

Statement 2: Vice-President gave maximum points to Mr. Mehta

1. If statement 2 is false then statement 1 is necessarily true.

2. If statement 1 is true then statement 2 is necessarily false.

3. Statement 1 could be true but statement 2 is necessarily false   independently.
4. Both statement 1 and statement 2 are necessarily false independently.

DIRECTION for questions 5 to 8:- Answer the questions on the basis of the information given below.

The following is the number of votes obtained by four persons-Sachin, Amitab, Murthy and Manmohan – from the four metros, in a poll to find the *Youth Icon* of the year. These person are disguised in the table as A.B.C and D in no particular order.

City	A	B	C	D
Mumbai	245	410	400	275
Kolkata	345	270	260	315
Chennai	360	315	360	325
New Delhi	285	305	310	350

It is also known that,

      (i)   In Chennai, Murthy had a maximum number of votes

      (ii)   Amitab Secured 30 votes more than Sachin in all the four metros combined.

5. Among the following statements, what is the minimum number of statements that can be simultaneously true?

      (a)   In Mumbai, Sachin secured the highest number of votes.

      (b)   Manmohan secured the highest number of votes in total.

      (c)   Murthy secured more votes in total than Amitab.

      (d)   Sachin secured more votes than Manmohan in total.

      (1)   0   (2)   1   (3)   2   (4)   3

6. At most how many of the following statements can be simultaneously true?

(a) Murthy secured the least number of votes in total.

(b) In Kolkata, Amitab secured the least number of votes

(c) Sachin secured more votes than Manmohan in total.

(d) Amitab secured the highest number of votes in total.

(1)   4   (2)   3   (3)   2   (4)   1

7. What can be said regarding the following two statements?

Statement A: Manmohan secured his least number of votes in Kolkata.
Statement B: Murthy secured his highest number of votes in Chennai.

(1) If statement A is true, then statement B is necessarily true

(2) If statement A is true, then statement B is necessarily false.

(3) Both statement A and statement B are true.

(4) Both statement A and statement B are false.

8. If Sachin received his least number of votes from Mumbai, then which of the following statements is necessarily true?

(1) Amitab received the highest number of votes in total.

(2) Manmohan received the more votes than Murthy in Kolkata.

(3) Manmohan received a maximum number of votes in total.

(4) None of the above.

DIRECTIONS for Questions 9 to 12: Answer the question on the basis of the information given below:

In a class 6 students viz, Andy, Bob, Chris, Dang, Eddy and Fenny have 1,2,3,4,5 and 6 pencils, not necessarily in that order. Further it is known that

I. Eddy has 2 more pencils than Chris.

II. Total number of pencils with Fenny and Andy is equal to the number of pencils with Dang.

In the following questions, a statement is given and a conclusion of drawn from that statement combined with some other information. The statement along with that information is consistent as well as sufficient to infer the stated conclusion correctly. You have to find that information from the given options.

9. STATEMENT: Dang has 3 pencils.

CONCLUSION: Andy has 1 pencil.

1. Bob has 5 pencils.
2. Eddy has 6 pencils.
3. Fenny has 2 pencils.
4. Chris has 2 pencils.

10. STATEMENT: Dang has 6 pencils.
CONCLUSION: Bob has 5 pencils.

1. Fenny has 4 pencils
2. Andy has more than 4 pencils.
3. Chris has less than 4 pencils
4. Total number of pencils with Andy, Chris and Fenny is 7.

11.   STATEMENT: Fenny has more pencils than Bob.
       CONCLUSION: Among the students, Bob has least number of pencils.

    1.   Andy is not the one having 1 pencil.
    2.   Dang has more than 5 pencils
    3.   Eddy is not the one who has 5 pencils.
    4.   Fenny is the one who has more than 3 pencils.

12.   STATEMENT: The student having 6 pencils is not dang.
       CONCLUSION: Total number of pencils with Andy and Chris is 6.

    1.   The student who has 2 pencils in not Fenny.
    2.   The student who has 5 pencils in not Dang.
    3.   The student who has 5 pencils in not Bob.
    4.   The student who has 4 pencils in not Chris.

DIRECTIONS for questions 13 to 16: Answer the questions on the basis of the information given below.

Wadhwa, Dhody, Ganjoo, Kokate, Johari and Lachiramka are three senior Managers and three Managers of a company not in any particular order. They are to be seated in a row, not necessarily in that order. The seats are numbered 1,2,3,4,5 and 6 from left to right in the row. No two Senior Managers sit adjacent to each other. Wadhwa does not sit adjacent to Dhody and one Manager is at position number 4.

In the following questions, a statement is given and a conclusion is drawn from that statement combined with some other information. The statement along with that information is consistent as well as sufficient to infer the stated conclusion correctly. You have to find that particular information from the given options.

13.   Statement: Wadhwa sits at seat number 2
       Conclusion: Dhody is a Senior Manager who sits at seat number 5.

    1.   Lachiramka sits at seat number 3
    2.   Ganjoo is a Senior Manager who sits at seat no. 6.
    3.   Ganjoo is a Senior Manager and Kokate sits at seat number 1.
    4.   Both Kokate and Johari are Managers and Johari sits at seat number 6.

14.   Statement: Kokate is a Manager who sits at seat number 5.
       Conclusion: Wadhwa sits either at seat number 1 or at seat number 6.

    1.   Both Lachiramka and Johari are Senior Manager.
    2.   Both Dhody and Ganjoo are Senior Manager
    3.   Both Dhody and Ganjoo are Managers.
    4.   Both Ganjoo and Johari are Manager

15.   Statement: Johari sits at seat number 3.
       Conclusion: Kokate can not sit at seat number 4.

    1.   Ganjoo is a Senior Manager who sits at seat number 5.

2. Ganjoo sits at number 2 and Lachiramka sits at seat number 1.

3. Both Dhody and Wadhwa are Senior Managers.

4. Both Dhody and Iachiramka are Managers.

16. Statement: Dhody sits at seat number 4.
    Conclusion: Wadhwa is a Senior Manager.

    1. Kokate sits at seat number 6 and Johari sits at seat number 2.
    2. Ganjoo sits at seat number 2 and Johari sits at seat number 1.
    3. Kokate is a Senior Manager and Lachiramka sits at seat number 3.
    4. Wadhwa sits at seat number 3 and Lachiramka sits at seat number 2.

DIRECTIONS for Questions 17 to 21:   Answer the questions on the basis of the information given below.

Following data is available regarding the number of units sold and revenue earned out of a single product called 'Mini-Truck', by three major automobiles manufacturers, Ashok Leyland, Tata Motors and Mahindra. The data pertains to three consecutive financial years starting from 2003-04 to 2005-06. The names of respective manufacturer are not available in the table, instead they are denoted as A, B and C, not in any particular order. The question that follow the table are related to the product 'Mini-Trunk' only. It is also known that 'Mini-Trunk' is sold in the market by these three manufacturers only. Market Share by volume is defined by the ratio (expressed as percentage) of the units sold by one particular manufacturer to the total units sold in the market.

Units sold and revenue earned from "Mini-Truck":-

Manufacturer	2003-04		2004-05		2005-06	
	Unit sold (Nos.)	Revenue (Rs. Crore)	Unit sold (Nos.)	Revenue (Rs. Crore)	Unit sold (Nos.)	Revenue (Rs. Crore)
A	4458	319	4236	305	4983	366
B	2797	182	3129	210	3490	239
C	3502	238	3339	232	3462	246

17. If Ashoka Leyland and Mahindra & Mahindra exchanged their No.2 and No. 3 positions in terms of market-share by volume in the year 2005-06 compared to the previous year, what is the average price per unit that Tata Motors charged in the year 2003-04?

    1.   5 Lakh   2.   6 Lakh   3.   7 Lakh   4.   8 Lakh

18. If Tata Motors recorded a growth every year in terms of number of units sold, which of the following may possibly be the total revenue earned by Ashok Leyland during these three given years?

    1.   More than Rs. 1000 Crore.
    2.   Between Rs. 800 Crore and Rs. 900 Crore.
    3.   Between Rs. 700 Crore and Rs. 800 Crore.
    4.   Less than Rs. 700 Crore.

19. If Mahindra & Mahindra experienced the sharpest percentage drop in the revenue in the year 2004-05, which manufacturer recorded the steepest percentage growth in revenue during any consecutive two of the given years?

    1. Ashok Leyland in 2004-05
    2. Tata Motors in 2005-06
    3. Mahindra & Mahindra in 2005-06
    4. Cannot be determined

20. In the year 2003-04, if Tata Motors dropped its average price per unit sold to Rs. 5.2 lakh, its revenue earned in that year would have equalled that of Ashok Leyland. Which manufacturer sold the least number of units in the year 2005-06?

    1. Mahindra & Mahindra
    2. Either Tata Motors or Mahindra & Mahindra
    3. Either Mahindra & Mahindra or Ashok Leyland
    4. Tata Motors

21. If Tata Motors had recorded a 50% growth in the number of units sold in the year 2005-06 over the previous year and the other manufacturers recorded the same growth as given in the table, it would have toppled Ashok Leyland from its No.1 position in the market. What would have been the market share by volume enjoyed by Mahindra in that case in the year 2005-06?

    1. 26%
    2. 24%
    3. 29%
    4. Cannot be determined

DIRECTIONS for questions 22 to 25: Answer the questions on the basis of the information given below:-

Six friends are sitting on a bench for a photo-shoot in a row such that

- Britney is sitting to the immediate left of Emma.
- Famke, who is to the right of Charlize, is sitting at one of the end of the row.
- Angelina is sitting to the right of Drew.

22. What can be said regarding the following two statements?
    Statement 1: Drew sits at one of the ends.
    Statement 2: Three people sit between Charlize and Famke

    1. If statement 1 is true then statement 2 is true.
    2. If statement 2 is true then statement 1 is true
    3. Statement 1 may be true but statement 2 is false.
    4. Statement 2 may be true but statement 1 is false.

23. What can be said regarding the following two statements?
    Statement 1 : One person sits between Angelina and Drew.
    Statement 2 : Charlize sits to the immediate left of Angelina.

    1. If statement 1 is true then statement 2 is true.
    2. If statement 1 is true then statement 2 is false.
    3. If Statement 1 is false then statement 2 is true.
    4. If Statement 1 is false then statement 2 is false.

24. Given that drew doesn't sit at either of the ends, what can be said regarding the following two statements ?

Statement 1:   Angelina sits next to Drew.

Statement 2:   Drew sits next to Britney

1.   If statement 2 is true then statement 1 is true.

2.   If statement 2 is true then statement 1 is false.

3.   If statement 2 is false then statement 1 is true.

4.   If statement 2 is false then statement 1 is false.

25. Given that one person sits between Fanke and Charlize, what can be said regarding the following two statements?

Statement 1   : Three persons sit between Drew and Famke.

Statement 2   : Angelina sits next to Famke.

1.   Statement 1 is false but statement 2 may be false.

2.   Statement 1 is false and statement 2 is true.

3.   Statement 1 may be true but statement 2 is true.

4.   None of the statements is definitely true or definitely false

3. REASONING

DIRECTIONS for Questions 1 to 5 : Answer the questions on the basis of the information given below.

Saregama organised a contest "Ek mein aur ek tu" in which 120 participants took part. Only 12 members were able to reach the Final round. Those 12 members were divided into six teams of 2 members each having one male and one female member. Male members were : Rajeev, Vishwanath, Saplak, Irfaan, Niladree and Vishwas and female members were Raktima, Vineeta, Ujjaini, Sanchali, Sinchan and Twinkle.

The team were coded as A,B,C,D,E and F

After the final round, the teams were ranked from 1 to 6.

Following additional information is available.

(i)   Saplak and Ujjaini were team members

(ii)   The team having Twinkle did not secure the rank 6.

(iii)   Neither of the teams which secured rank 4 or rank 5 were coded C or E.

(iv)   The team coded B secured an odd rank, which was not 3.

(v)   The other member of the team having Niladree is not Vineeta.

(vi)   The team having Irfaan secured rank 5 and the other member in his team was Sanchali.

(vii)   The team coded E secured an even rank.

(viii) The team having Raktima was coded A and the team having Sanchali was coded F.

(ix)   The team coded E had Vishwas as one of its members.

(x)   The team having Vineeta did not rank 3.

(xi)   The sum of the ranks of the team having Ujjaini and Twinkle was 8.

(xii)   Exactly two teams had the names of both their members stating with the same alphabet.

(xiii) The team which secured rank 6 was coded D.

(xiv)   The other member of the team having Vishwanath is not Sinchan.

1. What was the rank secured by the team in which one of the members was Vineeta?
   (i)   1   (ii)   2   (iii)   4   (iv)   5

2. Who was the other member of the team having Twinkle?
   (i)   Vishwanath   (ii)   Niladree   (iii)   Rajeev   (iv) Vishwas

3. Who was the member of the team which secured the rank 4?
   (i)   Rajeev   (ii) Sanchali   (iii) Raktima   (iv) Both (1) & (3)

4. The team which secured rank 5 was coded_____.
   (i)   A   (ii)   B   (iii)   D   (iv)   F

5. Identify the option having correct combination of the name of a team member, the rank secured by that team and the code of the team?
   (i)   Irfaan, 5, C   (ii)   Ujjaini, 1, D
   (iii) Rajeev, 4, A   (iv)   Niladree, 3, F

DIRECTION for Questions 6 to 9: Answer the questions on the basis of the Information given below:

Five friends Anurag, Vijender, Vipin, Parakram & Abhinav, nicknamed Sonu, Twinkle, Babbu, Monu and Gorkhi (not necessarily in that order) met after a long time. To celebrate their reunion each of them decided to treat all other friends at different cafeterias viz. Barista, CCD, Mocha, Mojo and Keventers. Each cafeteria serves a different drink from among. Fruit juice, Pepsi, Vodka, Milk & Cold Coffee (not necessarily in that order). Following additional information is given about them.

(i)   Anurag, who is not Sonu or Tinkle, did not treat at keventers.

(ii)   Parakram, who is Gorkhi, did not treat with Vodka or at CCD.

(iii) Monu, who is not Abhinav or Anurag, treated at Barista.

(iv)   Abhinav treated with a drink whose name started with the same alphabet as of the cafeteria in which it is served. The same holds for one other friend as well, who is neither Vijender nor Gorkhi.

(v)   Vodka was served at Mojo and Vipin treated with Pepsi.

(vi)   Each friend has a different nickname, treats as a different cafeteria and treats with a different drink.

6. Who among the following can not be the person who gave a treat at CCD?
   (i)   Babbu
   (ii)   Sonu
   (iii) Abhinav
   (iv)   Vijender

   1.   I and III   2.   II, III and IV   3.   Only IV   4.   None of these

7. If Anurag treats his friends with Cold Coffee, then with which drink does sonu treat his friends?
   (i) Vodka   (ii)   Milk   (iii)   Fruit Juice   (iv) Can not be determined

8. Which drink was served at Barista?
   (i) Pepsi   (ii) Fruit Juice   (iii) Cold Coffee   (iv) Milk

9.How many of the following cafeterias could be the one in which Tinkle can give a treat?
  (i)   Mocha
  (ii)   Mojo
  (iii)   CCD
  1. I and II   2. I and III   3. II and III   4. I.II & III

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DIRECTIONS for Question: 10 to 13. Answer the questions on the basis of the information given below.

Six students, addressing to the principal delivered a lecture on 'inclusion of extra curricular activities in the day schedule' in a school. Each student emphasised on the inclusion of a different activity. The lectures were delivered on successive days starting on Monday and culminating on Saturday, one on each day. The first names of the students in no particular order are: Sameer, Dheeraj, Ranjit, Rohit, Karan and Jyoti. The last name of the students in no particular order are: Verma, Malhotra, Roy, Thapa, Sharma and Tyagi.
Some information is given below.

A)   Sameer and the student who favoured the inclusion of singing as an extra curricular activity have been the students of the school for over 3 years. Sharma and the student who delivered the lecture on Saturday have been the students of the school for less than 3 years.

B)   Dheeraj Thapa's lecture, which favoured dancing as an extra curricular activity, was delivered on Wednesday.

C)   Roy favoured the inclusion of acting as an extra curricular activity. He delivered his lecture a day before Sharma's lecture.

D)   Ranjit favoured inclusion of drawing as an extra curricular activity.

E)   Jyoti's lecture was delivered on Thursday.

F)   Rohit, whose lecture was delivered just a day before Tyagi's favoured inclusion of gardening as an extra curricular activity.

G)   Karan's last name is not Malhotra.

H)   The lecture delivered on Monday favoured inclusion of painting as an extra curricular activity.

10.   Which of the following students favoured the inclusion of singing as an extra curricular activity?
        1. Jyoti   2. Sameer   3. Karan   4. None of these

11.   Which of the following combinations of the day and the lecture is correct?
        1.   Friday   -   Gardening
        2.   Thursday   -   Gardening
        3.   Saturday-   Singing
        4.   Friday   -   Singing

12.   Who emphasised on the inclusion of painting as an extra curricular activity?
        1. Malhotra   2. Verma   3. Sharma   4. Tyagi

13.   Sharma wanted to include which of the following activities?
        1. Gardening   2. Singing   3. Drawing   4. Cannot be determined

4.   AVERAGE/ALLIGATION…

DIRECTIONS for the question: 1 to 4 Answer these question on the basis of the information given below.

The following bar graph gives the details of the number of students who join class XI and pass out of class XII, in a school, for six years- from 2000 to 2005. The pass percentage of any batch which joined during the given period (i.e., from 2000 to 2005), in its scheduled year of passing out is at least 60% and at most 80%. For example, if 10x students join class XI in 2000, then the number of students in that batch who pass out in their scheduled year of passing, i.e., in 2002, would be between 6x and 8x (both included). Further, all students pass class XII in at most three years from their joining class XI. None of the students were absent for the exams during the given years. Students are admitted only into class XI.
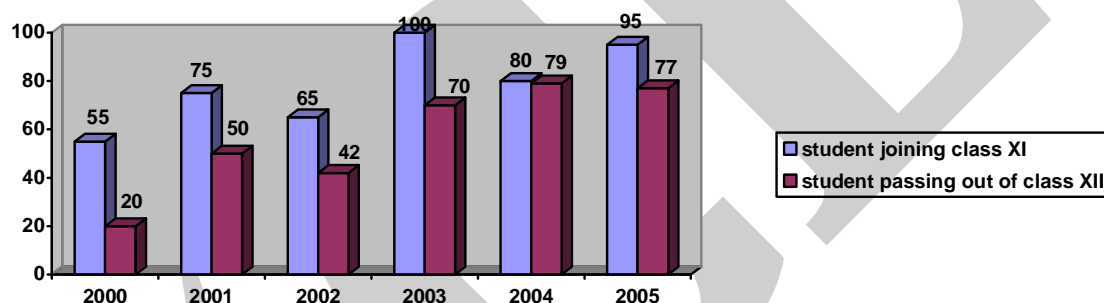
1. The number of students who joined class XI in 2003 but failed to   pass out
   of class XII in 2005 is.
     (1) 27   (2) 36   (3)40   (4) Cannot be determined

2.   The pass percentage in the first attempt (i.e., in the scheduled year of passing) was highest for the students joining class XI in which of the following year?
    1) 2000   2) 2001   3) 2002   4) 2003

 3.   How many of the students who joined class XI in 2001 passed out of class XII in their first attempt (i.e., in their scheduled year of passing)?
   1) 48   2) 52
                    3) 59   4) Cannot be determined

4. Considering, years 2004-2006, the number of students who passed out of class XII was the highest in

   (1) 2004   (2) 2005   (3) 2006   (4) Cannot be determined

DIRECTIONS for Question: 5 to 8 Answer the questions on the basis of the information given below:

In a colony, there are certain numbers of boys playing marbles. They formed five groups between them, namely Panther, Extreme, Warrior, Hurricane and Lightning. The minimum or maximum numbers of marbles with any boy in a group are represented in the figure below. The figure also shows the average number of marbles per boy of the group.
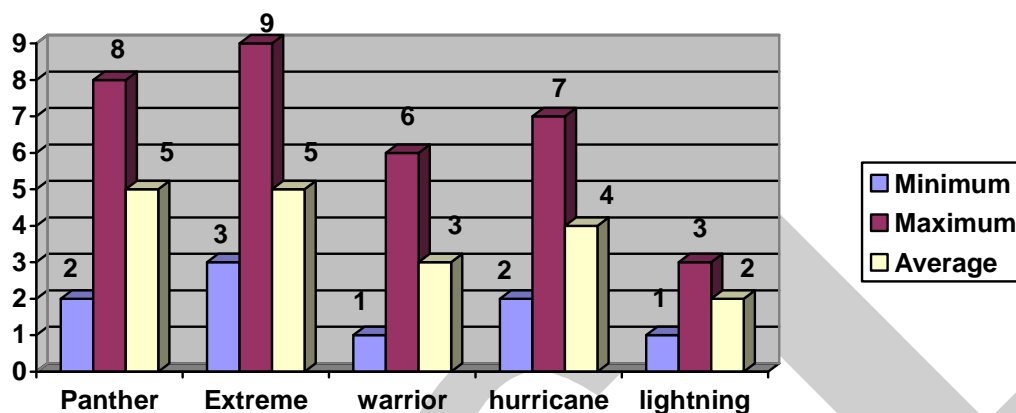
5. What is the minimum number of boys in all the groups taken together?
   1. 11   2. 13   3. 16   4.17

6. What is the least number of boys having 2 or 3 marbles with them?
   1. 2   2. 3   3. 4   4. More than 4

7. Given that there are 20 boys in each of these groups, at most how many boys can have 4 or 5 marbles with them?
   1. 58   2. 64   3. 70   4. 72

8. All the boys in Hurricane and Extreme come together to form a new group named Cannibals (without re-distributing the marbles among them). What is the Minimum number of boys in Cannibals who have more marbles than any boy in the Lightning?
   1. 4   2. 3   3. 2   4. None of these

Directions for Questions 9 to 11. Answer the questions on the basis of information given below:

On 1st July 2002, there were 9,10, 21, and 15 students who take admission to the first year of Science, Art, Agriculture and Commerce streams respectively at the university. All these courses are graduation courses and are of 3 years duration. Admission can be taken in the first year only. As per the university rules, in each stream and each year , at the most 1 student can fail. All the rest of the students progress to the next year. The following figure gives the average age of the above students in these streams as on 1st July 2002, 2003 and 2004.
(Age is defined as the integral number of years a person has lived so far).

A bar chart showing values for three years (2002, 2003, 2004) across four streams:
- Science: 17, 18.25, 19.25
- Art: 18, 19, 20
- Agriculture: 17, 18, 19
- Commerce: 17.4, 18.4, 19.5
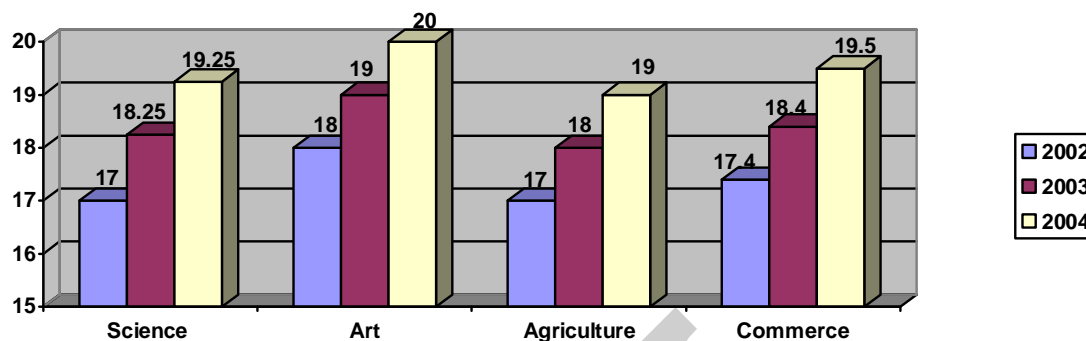
9. In 2003, across all the four streams, What is the minimum number of students who progressed to the second year?

   1. 51   2. 53   3.55   4.None of these

10. In 2004, what is the number of students of Science or Commerce who progressed to the third year?

   1.23   2. 24   3. 25   4. Cannot be determined

11. Given that Rajiv was the only one who could not progress to third year in 2004, what was the age of Rajiv as on 1st July 2004 .

   1. 17 years   2. 18 years   3. 19 years   4. Cannot be determined

5. SUDOKU…

Directions for questions 1 to 5: Answer the question on the basis of the information given below.

The grid below is to be filled so that every complete row of 9 cells, every complete column of 9 cells and every 3 cell × 3 cell box contains the digits 1 through 9. Some of the unknown digits are represented by variables k,N,I,F and E.

	6			1		4				5	
	N	8		3		5		6			
2	K										1
8				4		7					6
4	9	6						3			
	F					1					4
5											
I	E	7		2		6		9	8		
	4			5		8			7	3	

1. Value of which of the following variables is possible to determine?

   1. N   2.K   3.I   4.All of these

2. What is the digit that would come in the middle cell of the middle box?

    1.2   2.5   3.8   4.Cannot be determined

3. What is the digit that would come in the bottom left cell of the bottom left box?

    1.9   2.6   3.1   4. Cannot be determined

4. Which of the following values can be determined?

    1. (N × F) + (I × E × K)
    2. (N + F) – I + K
    3. (N × I) + F- K
    4. All of the above

5. What is the sum of all the digits that would come in the top row of the bottom right box?

    1.9   2.10   3.11   4. 12

Directions for questions 6 to 8: Answer the questions on the basis of the information given below.

In the year 1972, each of the Astronauts ---A,B,C,D,E,F,G,H AND I -   visited each of the nine planets- Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus, Neptune and Pluto. Each astronaut visited exactly one of the nine planets in each of the months January, February, March, April, May, June, July, August and September.

These nine astronauts belong to three groups such that astronauts A,B and C belong to the first group, astronauts D,E and F belong to the second group and astronauts G,H and I belong to the third group.

For reaching Mercury, Venus or Earth one has to use STV vehicles; for reaching Mars, Jupiter and Saturn one has to use PRV vehicles and for reaching Uranus, Neptune or Pluto, one has to use ZKV vehicles.

Further, in any month,

    I. No two astronauts of the same group used the same type of vehicle
    II. No two astronauts visited the same planet.

The following table give the details of the months in which each astronaut visited each planet. Unfortunately, some of the data is missing.

		By STV Vehicles			By PRV Vehicles			By ZKV Vehicles		
		Mercury	Venus	Earth	Mars	Jupiter	Saturn	Uranus	Neptune	Pluto
First group	A	April		January			May		August	
	B	July	March				June		-	
	C		September		August					January
Second group	D		January	April						June
	E			July				February		
	F	February	June					September	January	
Third group	G	June					April		March	
	H			March	September				May	
	I		July		January			April		February

6. Who visited Jupiter in the month of July?
   1.D   2.F   3.H   4.Cannot be determined

7. In which month did G visit Uranus?
   1. January   2.March   3.April   4.June

8. Who visited Pluto in the month of July?
   1.E   2.G   3.A   4.H

6. <u>SEEDINGS….</u>

Directions for questions 1 to 4: Answer the questions on the basis of the information given below.

The FIFA World Cup Football tournament in 2006 had the 32 participating countries divided into 8 groups- A to H. Each group had four teams, with each team playing all the other teams in the group exactly once. The top two teams in each group advance to the pre-quarters, i.e., the round of 16, from where onwards the tournament is played in the knock-out format, except when the losers of the semi-finals are not eliminated but instead play each other of the 3Rd place. The different teams in each group and the fixtures for the subsequent matches are as follows:

Group A	Group B	Group C	Group D
Germany	England	Argentina	Mexico
Costa Rica	Paraguay	Ivory Coast	Iran
Poland	Trindad and Tobago	Serbia	Angola
Ecuador	Sweden	Holland	Portugal

Group E	Group F	Group G	Group H
Italy	Brazil	France	Spain
Ghana	Croatia	Switzerland	Ukraine
USA	Australia	South Korea	Tunisia
Czech Republic	Japan	Togo	Saudi Arabia

The format of the matches in the Knock-out stage
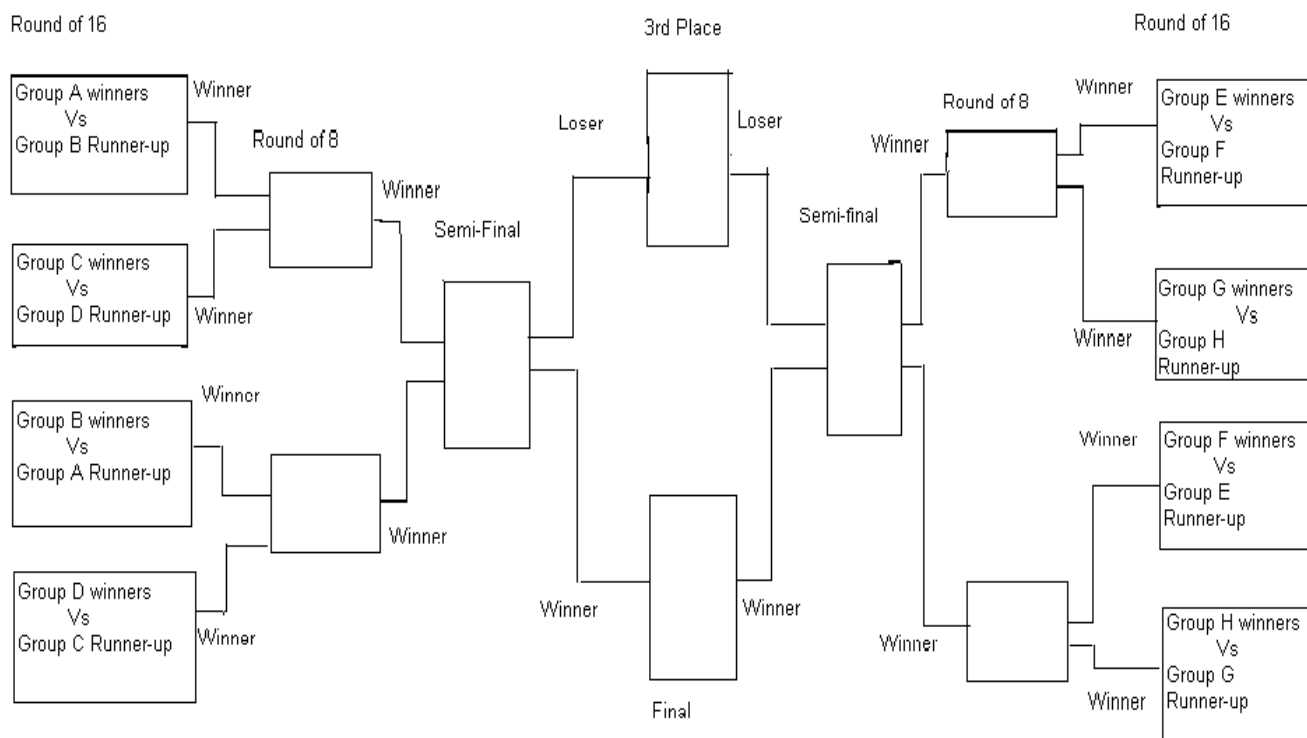
1. The total Number of matches in the tournament is
    1.55   2.63   3.64   4.None of these

2. If Brazil reached the finals, which of the following could be the teams that it beat in the quarter finals, i.e., the round of 8?

    1. Croatia   2.Czech Republic
    3. South Korea   4.USA

3. If it was known that one match of the tournament was between Czech Republic and Ukraine, it could have taken place in the
    I. Semi-finals   II. Round of 8   III. Round of 16   IV. Finals

    1.Only I or IV   2. Only I or II
    3.Only I, II or III   4. Only I or III

4. If Argentina was the loser in the finals, which of the following is definitely not the winner of the tournament?
    1.USA   2.Japan
    3.Paraguay   4.Tunisia

Directions for Questions 5 to 8. Answer the questions on the basis of the information given below:

In a given season of F1 racing, 9 races to be held. There are 8 teams with two drivers in each team and the points are awarded to the drivers in each race as per the following table.

Rank	1st	2nd	3rd	4th	5th	6th	7th	8th	9th to 16th
Points	10	8	6	5	4	3	2	1	0

Two championships viz. 'Driver's Championship' and 'Constructor's Championship' take place simultaneously. 'Driver's Championship' is given to the player who has maximum number of points at the end of the season. 'Constructor's Championship' is given to the team for which the sum of the points of both its drivers is maximum. A driver is said to get the podium finish only when he is among the top 3 rankers in a race.

After the first 6 races, the point's standings of the 16 drivers is as follows:

Driver	Team	Points
Alonso	Renault	54
Schumacher	Ferrari	39
Kimi	Mclaren	29
Fisichella	Renault	27
Montoya	Mclaren	22
Massa	Ferrari	22
Button	Honda	21
Barichello	Honda	10
Villeneuve	Red Bull	4
Webber	Williams	3
Roseberg	Williams	2
Coulthard	BMW Soubers	1
Heidfeld	Red Bull	0
Klien	BMW Soubers	0
Liuzzi	Torro Rosso	0
Scott Speed	Torro Rosso	0

5. If Alonso got the podium finish in each of the first 6 races, then in at most how many races did he rank 2nd?

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

6) Apart from the first six races, Alonso got the podium finish in 7th race as well. But he was not allowed to participate in the subsequent races due to mechanical failure. At the end of the season, if Schumacher won the 'Driver's Championship', then which of the following could have been his lowest rank in any of the last three races?

1. 5th 2. 6th 3. 7th 4. 4th

7) Which of the following statement cannot be true?

1. Renault and Ferrari had a tie for the 'Constructor's Championship'

2. Alonso got the podium finish in each of the first 6 races out of which he did not rank 1st in the 6th race

3. Fisichella got the podium finish in the 9th race and Honda won the 'Constructer's Championship'.

4. Barichello got the podium finish in the 3rd race but he did not score any point in the 1st race.

8) If Schumacher ranked 9th in one of the first six races, then which of the following CANNOT be the points scored by him in any one of the first six races?

1. 3   2. 2   3. 1   4. 0

7. <u>GAMES POINT TALLIES….</u>

International Rugby Commission recently organised a rugby tournament in which four teams participated. The teams were England, France, Australia and Ireland. In the tournament, all the matches were scheduled to take place on four different venues, namely Gosford , Townsville, Wollongong and Launceston. Below is a snapshot of the matches won by these teams at different venues at a certain stage of the tournament, as captured by observer.

	Venues			
Teams	1	3	2	3
	3	2	4	5
	2	3	3	4
	1	4	2	4

The observer being absent minded did not bring the participating 'countries' names and venues of the tournament along with the data. However, it is known that the teams must have listed from top to bottom row wise at the left side of the table while each column must have represented a unique venue. Further information that the observer could retain is:

I. At Townsville maximum matches were won by Ireland.
II. Australia won its minimum matches at Gosford.
III. France has won 2 matches less then Australia.

1) Which two countries could have won equal number of matches at Townsville?

1. England and Australia   2. France and England

3. Australia and Ireland   4. Ireland and France

2) Which of the following can never be correct?

1. France has won 1 match at Gosford.

2. Ireland has won 2 matches at Townsville.

3. England has won 3 matches at Launceston.

4. Australia has won 4 matches at Wollongong.

3) Which of the following is correct/

1. Australia has won 3 matches more than Ireland

2. England has won 3 matches less than France

3. France has won 5 matches less than Ireland

4. England has won 1 match less than Australia

4) In Launceston, no country has won lesser matches than France. Which of the following may not be correct?

1. Australia has won 4 matches in Wollongong.

2. The difference between the matches won by Ireland and England in Launceston is 1.

3. England has won 3 matches in Townsville

4. None of the above

Directions for Questions 12 to 16: Answer the Questions on the basis of information given below.

The following table gives the standing at a certain stage of a six-nation football tournament. Each team plays with the other team only once. A game of football involves only two teams. The team that scores more number of goals is the winner of that particular game. A game is said to be a draw if the goals scored by both the teams is the same.

The following nomenclature holds true for the table, 'P' – Games played, 'W' – Games won, 'L' – Games lost, 'D' – Games drawn, 'GF' – Goals for, 'GA' – Goals against , 'GD' – Goal Difference, 'Points' – Total number of points,. Three points are awarded for a win, one for a draw and no points are awarded in case of loss.

S. No.	Teams	P	W	L	D	GF	GA	GD	Points
1	**ARGENTINA**	4	1	1	2	5	3	+2	5
2	**SPAIN**	4	0	1	3	4	5	-1	3
3	**FRANCE**	4	0	1	3	3	4	-1	3
4	**ITALY**	4	2	0	2	6	4	+2	8
5	**BRAZIL**	4	1	0	3	6	4	+2	4
6	**ENGLAND**	4	1	2	1	--	8	--	4

Additional information given:-

(i) The total number of goals scored in each of the drawn game is 2.
(ii) Argentina and Italy drew their games with England and Brazil respectively.
(iii) England beat Spain.

12. **France lost its game with a Shoreline (GF-GA) of**
    (i) 0-1   (ii)   1-2   (iii)   1-3   (iv) None of these

13. **How many goals has England scored in its 4 games?**
    (i) 2   (ii)   3   (iii)   4   (iv)   5

14. **How many games have been played till now?**
    (i) 20   (ii)   12   (iii)   10   (iv)   7

15. **Find the number of goals scored in the game between England and Spain?**

    (i) Four   **(ii)   One**   **(iii)   Two**   **(iv)   Three**

16 **Argentina beat**
    (i) Brazil   **(ii)   France**   **(iii)   England**   **(iv)   Spain**

DIRECTIONS for Questions 17 to 19   Answer the question on the basis of the information given below: -

Top 4 teams participate in Euro Cup, which is a tournament consisting of two rounds. In each round, a team plays only one match with every other team. The table below gives, the data regarding initial four matches played in the first round. 3. points are awarded for a win and 1 point for a draw to each team. No point is awarded for a loss.

Teams	Played	Won	Lost	Drawn	Goals For	Goals Against	Points
Barcelona	2	0	0	2	0	0	2
Chelsea	2	1	1	0	2	2	3
Manchester United	2	0	1	1	0	1	1
AC Milan	2	1	0	1	2	1	4

The remaining matches of the first round were all drawn.

The following table gives the data of the goals scored in the matches played in the second round.

Teams	Barcelona	Chelsea	Manchester United	AC Milan
Goals For	2	2	1	1

Goals Against	0	2	1	3

The following information is available regarding the matches played in the second round.

- I.   AC Milan lost two matches.
- II.   Chelsea won only one match.
- III. The match between Manchester United and Chelsea ended in a draw.
- IV.   Barcelona faced a draw in the match against AC Milan
- V.   Barcelona had 10 points cumulatively in the two rounds.

17.   How many matches did Manchester United win in the second round?

(i) 0   (ii) 1   (iii) 2   (iv) 3

18.   Which of the following could be the sixth match played in the fist round.

(i) Barcelona vs AC Milan   (ii) Chelsea vs Manchester United

(iii) AC Milan vs Manchester United (iii) Chelsea vc AC Milan

19.   The goal comparison of teams after the tournament is as follows:-

Teams	Barcelona	Chelsea	Manchester United	AC Milan
Goals For	3	5	1	3
Goals Against	1	5	2	4

20.   What was final result (goals scored by the teams in the match) of the match between AC Milan and Manchester United, in the order. In the first round?

(i)   0-0   (ii)   1-1

(iii)   2-2   (iv)   Cannot be determined

8. NAYA-PURANA…

Purana and Naya are two brands of kitchen mixer- grinders available in the local market. Purana is an old brand that was introduced in 1990, while Naya was introduced in 1997. For both these brands, 20% of the mixer grinders bought in a particular year are disposed off exactly two years later. It is known that 10 Purana mixer-grinders were disposed off in 1997. The following figures show the number of Purana and Naya mixer grinders in operation from 1995 to 2000, as at the end of the year.

1) How many Naya mixer- grinders were purchased in 1999?
   1. 44   2. 50

   3. 55   4. 64

2) How many Naya mixer- grinders were disposed off by the end of 2000?
   1. 10   2. 16

   3. 22   4. Cannot be determined from the data

3) How many Purana mixer- grinders were disposed off in 2000?
   1. 0   2. 5

   3. 6   4, Cannot be determined from the data

4) How many Purana mixer- grinders were purchased in 1999?
   1. 20   2. 23

   3. 50   4. Cannot be determined from the data

Directions for Questions 5 to 7: Answer the Questions on the basis of the information given below.

The chart below shows the production (in million units) of a tube-light manufacturer 'Chanda' from 1991 to 2001. The production graph was designed taking 5 consecutive years from 1991 to 2001. The overall production in this period is also shown:

Production vs Period bar chart (East)

Period	Production
1991to1995	161
1992to1996	170
1993to1997	160
1994to1998	184
1995to1999	178
1996to2000	181
1997to2001	183
1991to2001	377
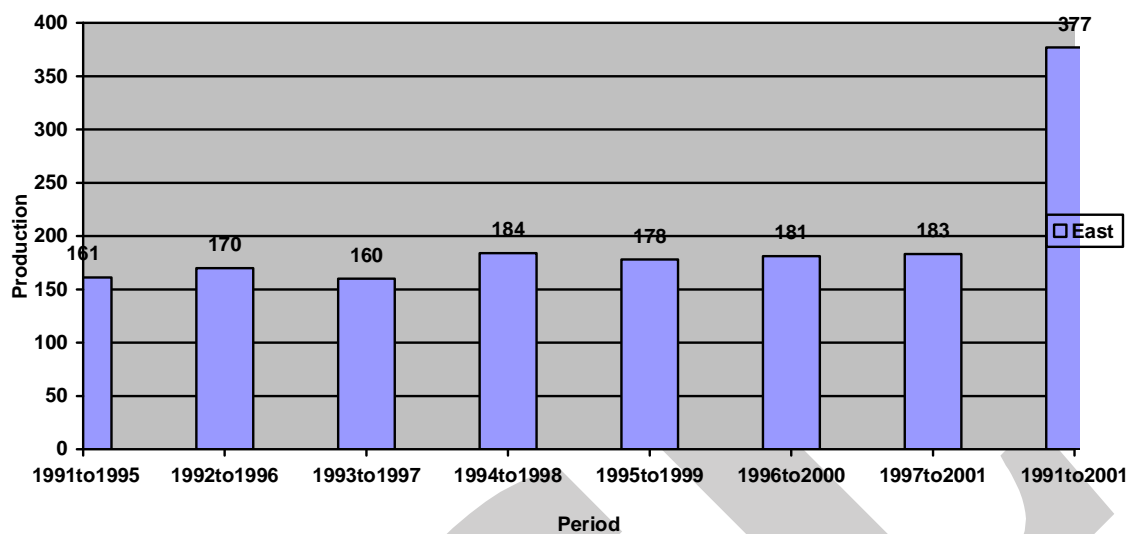
5) How many units of tube-light did 'Chanda' produce in the period from 1997 to 2000?

   1. 146 lakh   2. 148 lakh   3. 1083 lakh   4. 1480 lakh

6) What could be the maximum possible production (in million units) of tube- light s by 'Chanda ' in the year 1995?

   1. 160   2. 137   3. 121   4. 105

7) Which of the following information's, if provided in addition to the graph above, will enable one to find the production of unit s of tube- lights by 'Chanda' in each year from 1991 to 2001 .

   1. Absolute production in each of the years 1992,1995 and 1999
   2. Absolute production in each of the years 1992,1993 and 1997
   3. Absolute production in each of the years 1994,1995 and 1996
   4. Absolute production in each of the years 1991,1992 and 2000

9. GROUPINGS…

Directions for Questions 1 to 4 : Answer the questions on the basis of the information given below.

Prof. Singh has been tracking the number of visitors to his homepage. His service provider has provided him with the following data on the country of origin of the visitors and the university they belong to:

Number of Visitors

COUNTRY	DAY		
	1	2	3
Canada	2	0	0
Netherlands	1	1	0
India	1	2	0
UK	2	0	2
USA	1	0	1

Number of Visitors

UNIVERSITY	DAY		
	1	2	3
University 1	1	0	0
University 2	2	0	0
University 3	0	1	0
University 4	0	0	2
University 5	1	0	0
University 6	1	0	1
University 7	2	0	0
University 8	0	2	0

1. To which country does University 5 belong?

   1. India or Netherlands but not USA   2. India or USA but not Netherlands

   3. Netherlands or USA but not India   4. India or USA but not UK

2. University 1 can belong to

   1. UK   2. Canada   3. Netherlands   4. USA

3. Which among the listed countries can possibly host three of the eight listed universities?
   1. None   2. Only UK   3. Only India   4. Both India and Uk

4. Visitors from how many universities from UK visited Prof.Singh's homepage in three days?
   1. 1   2. 2

   3. 3   4. 4

Directions for Question 5 to 8: Answer the questions on the basis of the information given below.

The following data provides information on city and community of the people visiting National Museum on Saturday, Sunday, Monday, and Tuesday. A community belongs to only one city.

Number of people from 6 cities

Cities	Saturday	Sunday	Monday	Tuesday
Buenos Aires	3	2	1	1
Cordoba	2	1	2	0
Rosario	3	1	0	3
Mendoza	3	0	3	3

Resistencia	2	2	2	0
Corrientes	1	3	1	2

Number of people from 12 communities

Communities	Saturday	Sunday	Monday	Tuesday
Sorin	3	0	1	0
Heinze	1	1	1	2
Gonzalez	0	2	0	0
Aimar	1	0	0	0
Tevez	2	0	3	0
Riquelme	2	2	2	0
Rodriguez	1	0	0	3
Lionel	0	0	0	1
Hernan	0	1	0	0
Javier	0	2	0	1
Maccherano	2	1	0	2
Sambiosa	2	0	2	0

5. How many cities have exactly two communities?

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

6. Which city has Lionel community?

   1. Buenos Aires   2.Mendoza   3.Corrientes   4. Rosario

7. Which of the following statements are true?

   Statement A: Riquelme is the only community of Resistencia

   Statement B: Rosario has only two communities

   Statement C: Sambiosa is Mendoza's community

   Statement D: Buenos Aires has Javier community

   1. A and D only   2.A,C and D only   3.D and B only   4.A,B and D only

8. Which city has Gonzalez community?

1. Buenos Aires   2.Resistencia   3.Corrientes 4.Cannot be determined

10. <u>CALCULATIVE D/I…</u>

Directions for Questions 1 to 4 : Answer the questions on the basis of the information given below.

Following table showcases the lunch of various vehicles in the passenger car segment, in 2006, with their respective project cost and selling price per car. Project cost is a one time cost to the manufacturing company incurred in license procurement, registration and design development before the model is produced.

Manufacturing Company	Model	Expected Launch	Project Cost (in Rs. Crore)	Annual Capacity of production	Selling Price (Rs. Lakh per vehicle)
General Motors	Chevrolet Aveo	Feb'06	600	17,000	6.5
Skoda	Fabia	Apr'06	605	5,500	11
Skoda	Roomster	July'06	300	5,000	15.5
Toyota	Fortuner	July'06	540	14,000	4.5
Kinetic	Small car	Sept'06	670	26,000	1.3
General Motors	Chevrolet Spark	Dec'06	850	20,000	5

- All the vehicles produced are expected to get sold.
- The production should be carried out uniformly throughout the year and all the vehicles will be produced at the capacity.
- Raw material, taxes, production cost and 'other' cost are the only costs to the manufacturing company and they amount to 18%, 12.5 %, 9% and 10.5 % respectively of the selling price.
- A model is said to "Break Even " when the cumulative profit to its manufacturing company due to its sales equals the project cost associated with that model.

1. By which month should Skoda Fabia be able to break even?

   1.Apr'07   2. Sept'07   3.Apr'08   4.Sep'08

2. The Toyota Fortuner project get delayed by two years. In case of a delay, the interest on project cost is borne by the manufacturing company at 41% compounded annually. How many vehicles (approximately) must be sold by Toyota to enable Fortuner to break even, if the selling price per vehicle was increased by 20%?

   1.27,000 vehicles   2. 40,000 vehicles   3.64,000 vehicles   4. Data Insufficient

3. Immediately after break even by Toyota Fortuner, Toyota installed Automatic gear kits on its Fortuner model. This translated to an additional increment of Rs 52.5 Crore in the project

cost. At the same time, selling price of the car was also increased by Rs.25000. What is the profit that Fortuner will make in one year after the mentioned break even?

1. Rs332.5 crores

2. Rs. 252.5 crores

3. Rs. 200 crores

4. Rs. 280 crores

4. To meet the excess demand of Roomster, Skoda decides to increase the production capacity by 30% by investing Rs. 87 crores makes toward the project cost. Approximately how many Roomsters should Skoda sell now to break even?

1. 10,000

2. 6,.500

3. 5,000

4. 4,500

Directions for questions 5 to 10 Answer the questions on the basis of the information given below.

The following table gives the distribution of watches sold by five companies- Rado, Omega, Swatch, Tag Heuer and Tissout – at an outlet. In the first table, compete data regarding the distribution of watches sold, according to the price range, is mentioned for each the companies given and in the second table only partial information regarding the company wise distribution of watches sold at a price less than or equal to Rs. 10,000 is given

Company wise distribution of watches sold at a price of less than or equal to Rs. 10,000

(in percentage terms)

Company	Price
	Less than or Equal to Rs.10,000
Rado	24
Omega	24
Swatch	18
Tag Heuer	16
Tissout	18
Total	100

Price wise distribution of watches sold by the five companies

(All values are in percentage terms)

Price (P) (in Rs.)	Rado	Omega	Swatch	Tag Heuer	Tissout
P ≤ 10,000	16	12	36	16	18
10,000 < P ≤ 20,000	28	20	16	36	24
20,000 < P ≤ 40,000	18	16	18	12	20
40,000 < P ≤ 1,00,000	17	20	17	18	18
P > 100,000	21	32	13	18	20
Total	100	100	100	100	100

Assume the outlet sells watches of only these five companies.

5. What is the ratio of the number of Rado, Swatch and Tissout watches sold at the outlet?

   1) 3:1:2

   2) 1:1:1

   3) 3:4:1

   4) cannot be determined

6. For watches with the price of more than Rs. 20,000 but not more than Rs. 40,000 , the watches of which company had the maximum sales(in units) at the outlet?

   1) Tissout

   2) Omega

   3) Rado

   4) cannot be determined

7. If for watches costing over Rs. 100,000, the ratio of the value of sales of Omega watches and Tag Heuer watches is 32:5 , what is the ratio of the average cost of Omega watch sold to that of a Tag Heuer watch sold, in the price range?

   1)18:5

   2)16:5

   3) 9:5

   4) cannot be determined

8. For Price P, the ratio of the number of watches sold at the outlet for the ranges P ≤ 10,000, 10,000 < P ≤ 20,000 and 20,000 < P ≤ 40,000 is

   1) 3:4:1

   2) 2:3:2

   3) 1:3:4

   4) cannot be determined

9. Which of the following, when considered independently, is equal to the number of Omega watches sold at a price of more than Rs. 1, 00,000?

   I. Total number of Tissout watches sold at a price not more than Rs.40,000

   II. Total number of Rado, Omega and Tag Heuer watches sold at a price less than Rs.10,000

III. Total number of Omega watches sold at a price not more than Rs.20,000

IV. Total number of Omega, Tag Heuer and Tissout watches together sold at a price more than Rs.20,000 but not more than Rs. 40,000

1) All except I   2) All except II

3) All except III   4) All except IV

10. If the difference between the number of Rado watches and Swatch watches   sold at a price of more than Rs.1, 00,000 is 100, what is the total number of watches sold at the outlet?

1) 2000   2) 2500

3) 2400   4) cannot be determined

Directions for questions 11 to 14: Answer the questions on the basis of information given below.

A trader started selling toys from Monday and continued till Thursday. Graph I shows the average price in Rs. 5 per toy of all the toys sold upto a particular day of the week counting from the toys sold on Monday. For example, the average price per toy of all the toys sold from Monday to Wednesday Is 40.
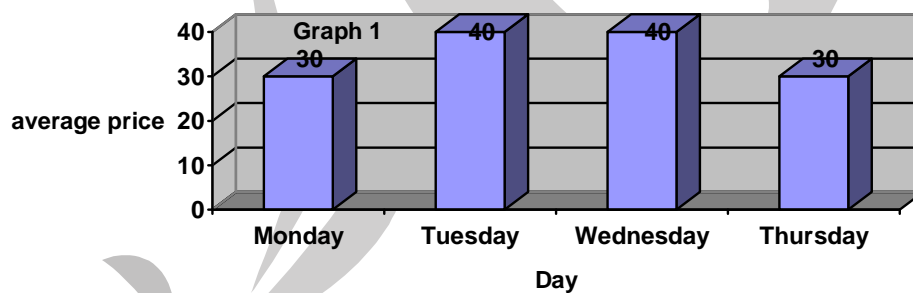
Graph II shows the aggregate number of toys sold on (Monday and Tuesday). (Tuesday and Wednesday), (Wednesday and Thursday) and (Thursday and Monday).
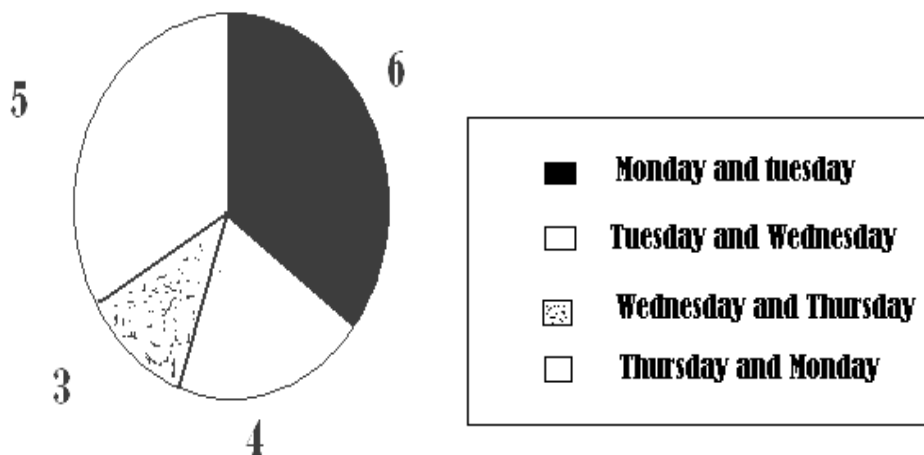
In the following questions, mark

Choice (1), if the question can be answered by graph I Alone and graph II is not required.

Choice (2), if the question can be answered by graph II Alone and graph I is not required.

Choice (3), if the question can be answered by both graphs (graph I and graph II taken together and not by any one of these graphs alone.

Choice (4), if the question cannot be answered even by using both the graphs together.

11. What is the average price per toy of all the toys sold on Wednesday?

12. What is the total number of toys sold on Tuesday and Thursday?

13. Given that no toy was sold on one of these days, which day was it?

14. What is the average price per toy of all the toys sold on Thursday ?

Directions for Questions 15 to 18 Answer the questions on the basis of the information given below.

A retail merchandiser keeps juices in packets of 100 ml each. The details of a packet of juice, its selling price and its calorie content are shown in the figure below. The calorie content of a mixture (obtained by mixing two or more packets) is always equal to the aggregate of the calorie contents of the individual packets.
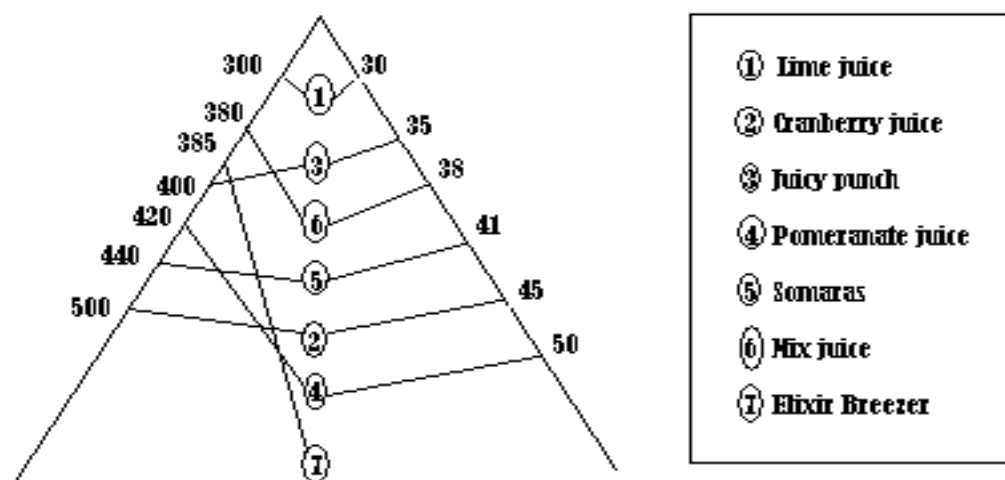
By going through the ingredients of the packets, a customer found the following.

Mix juice can be obtained by mixing Pomegranate juice, Lime juice and Juicy punch in a certain proportion. Somras can be obtained by mixing Cranberry Juice and Mix Juice in a certain proportion. Juicy Punch can be obtained by mixing Lime Juice and Cranberry Juice in a certain proportion. Elixir Breezer can be obtained by mixing Mix Juice and Juicy punch in a certain proportion. It is also known that the quantities of Pomegranate Juice and Lime Juice in Mix juice are in the ratio 1:1

15 What is the cheapest price at which the customer could obtain 200 L of Elixir breezer for a grand party?

1. Rs.74,500   2. Rs.73,750   3. Rs.72,000

4. Rs.70,750

16 What is the cheapest price at which the customer could obtain 400 ml of Mix juice?

1. Rs. 152   2. Rs. 151   3. Rs.150   4. Rs.155

17 Somras can also be obtained by

1) Mixing Cranberry juice, Pomegranate juice and Lime juice in the proportion 5:1:3.

2) Mixing Pomegranate juice, Juicy punch and Cranberry juice in the proportion 1:3:3.

3) Mixing Elixir Breezer, Cranberry juice and Pomegranate juice in the proportion 16:15:1.

4) Mixing Juicy punch, Lime juice and Cranberry juice in the ratio 3:1:4.

18 Which of the following is incorrect?

1) Mix juice has equal quantity of Pomegranate juice and Cranberry juice.

2) 50% of Elixir Breezer is Lime juice.

3) Quantity of Pomegranate juice is half the quantity of Lime juice is Somras.

4) None of them

Directions for questions 19 to 22 Answer the questions on the basis of the information given below.

The following tables give information about the distances from the houses (in Kms) of six friends A,B,C,D,E and F to their officers and distances between the houses of each other. Table1 gives information about the distances of their houses from their offices. Table 2 gives information about the distance between the houses of the friends and Table 3 gives information about the distance between the offices of the friends. The expenditure incurred when any of the friends goes from his office to any other office and vice-versa is Rs.2 per Km. The expenditure incurred when any of the friends goes from his house to any other house and vice-versa is Rs. 1 per Km. The expenditure incurred when any one of the friends goes from any office to any house and vice-versa is Rs. 3 per km. A_o and A_H represent office and house of A respectively and this notation holds true for all the friends.

Table 1

House	Officers					
	A_o	B_o	C_o	D_o	E_o	F_o
A_H	12	15	11	16	10	14
B_H	15	13	12	10	8	11
C_H	17	12	18	18	16	10
D_H	16	10	13	12	9	14
E_H	12	10	19	11	17	18
F_H	9	10	12	14	18	19

Table 2

House	House					
	A_H	B_H	C_H	D_H	E_H	F_H
A_H		18	14	13	16	19
B_H	18		16	15	17	14
C_H	14	16		18	14	15

D_H	13	15	18		12	16
E_H	16	17	14	12		13
F_H	19	14	15	16	13	

Table 3

Officers	A_o	B_o	C_o	D_o	E_o	F_o
A_o		18	14	13	16	19
B_o	18		16	15	17	14
C_o	14	16		18	14	15
D_o	13	15	18		12	16
E_o	16	17	14	12		13
F_o	19	14	15	16	13	

19 A on this way to his office picks up three of his friends. The last person he picks up stays closest to his house. He then drops them at their respective officers and then goes to his office. Find the minimum distance covered by A.

1.91 Kms   2. 88 Kms   3. 90 Kms   4. 92 Kms

20 For how many friends the distances of their houses from their respective offices is not less than the distance from the houses of any other friend?

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

21 B drops his wife in D's house, pick up D, drop him at his office and reaches his own office. What is the total cost incurred?

1. Rs. 81   2. Rs. 84   3. Rs. 97   4. Rs. 79

22 D goes to all the houses to invite his friends to his daughter's weeding on the same day and returns home. He spent the minimum amount of money in the process, how much did he spend?

1. Rs. 164   2. Rs. 82   3. Rs. 79   4.None of these

D/I KE DUS AVATAR

ANSWERS

1. TABLE FILLING

1	3	4	2	7	1	10	4
2	1	5	1	8	2	11	1
3	4	6	4	9	3	12	3

2. STATEMENTS/CONCLUSIONS

1	3	7	2	13	4	19	3	25	2
2	1	8	2	14	3	20	4		
3	1	9	3	15	2	21	1		
4	3	10	4	16	1	22	2		
5	2	11	1	17	3	23	1		
6	1	12	1	18	3	24	2		

3. REASONING

1	1	4	4	7	4	10	3	13	1
2	4	5	3	8	1	11	1		
3	4	6	3	9	4	12	1		

4. AVERAGE/ALLIGATION

1	2	4	3	7	2	10	1
2	3	5	2	8	3	11	2
3	1	6	4	9	4		

5. SUDOKU

1	2	3	2	5	4	7	1
2	2	4	2	6	2	8	3

6. SEEDING

1	3	3	2	5	2	7	3
2	3	4	3	6	3	8	2

7. GAMES POINT TALLIES

1	3	5	2	9	2	13	3	17	2

2	1	6	4	10	3	14	2	18	3
3	4	7	1	11	3	15	4	19	1
4	3	8	1	12	1	16	2		

8. NAYA PURANA

1	2	2	4	5	1	7	1
2	3	4	1	6	3		

9.GROUPING

1	1	3	1	5	2	7	1
2	3	4	2	6	4	8	3

10.CALCULATIVE D/I

1	3	6	2	11	1	16	3	21	1
2	2	7	3	12	3	17	3	22	2
3	4	8	2	13	1	18	4		
4	3	9	1	14	3	19	4		
5	1	10	3	15	2	20	2		

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