SECTION - I

This section contains: 25 questions

A shop stores-x kg of rice. The first customer buys half this amount plus half a kg of rice. The second customer buys half the remaining amount plus half a kg office. Then the third customer also buys half the remaining amount plus half a kg of rice. Thereafter, no rice is left in the shop. Which of the following best describes the value of x?

 (1) 2 ≤ x ≤ 6
 (2) 5 ≤ x ≤ 8
 (3) 9 ≤ x ≤ 12
 (4) 11 ≤ x ≤ 14
 (5) 13 ≤ x ≤ 18

Directions for Questions 2 and 3:

Let $f(x) = ax^2 + bx + c$, where a, b and c are certain constants and $a \neq 0$. It is known that f(5) = -3f(2) and that 3 is a root of f(x) = 0.

2.	What is the other root of $f(x) = 0$?		
	(1) - 7	(2) - 4	(5) connect he determined
	(3) 2	(4) 6	(5) cannot be determined
3.	What is the value of $a + b + c$?		
	(1) 9	(2) 14	
	(3) 13	(4) 37	(5) cannot be determined
4	The number of common terms in the two s	aguancas 17 21 25	417 and 16 21 26 466 is

4.	The number of commo	on terms in the two se	quences 17, 21, 25 .	417 and 16, 21, 26,, 466 is	
	(1) 78	(2) 19	(3) 20	(4) 77	(5) 22

Directions for Questions 5 and 6:

The figure below shows the plan of a town. The streets are at right angles to each other. A rectangular park (P) is situated inside the town with a diagonal road running through it. There is also a prohibited region (D) in the town.

А				С	
			1	D	
		Р			
] _B

- 5. Neelam rides her bicycle from her house at A to her office at B, taking the shortest path. Then the number of possible shortest pains that she can choose is
 - (1) 60 (2) 75 (3) 45 (4) 90 (5) 72
- 6. Neelam rides her bicycle from her house at A to her club at C, via B taking the shortest path. Then the number of possible shortest paths that she can choose is
 (1) 1170
 (2) 630
 (3) 792
 (4) 1200
 (5) 936
- 7. Let f(x) be a function satisfying f(x) f(y) = f(xy) for all real x, y. If f(2) = 4, then what is the value of $f(\frac{1}{2})$?
 - (1) 0 (2) $\frac{1}{4}$ (3) $\frac{1}{2}$ (4) 1 (5) cannot be determined

- 8. The integers 1, 2, ... 40 are written on a blackboard. The following operation is then repeated 39 times: In each repetition, any two numbers, say a and the b, currently on the blackboard are erased and a new number a + b ... I is written. What will be the number left on the board at end?
 - (1) 820
 (2) 821
 (3) 781
 (4) 819
 (5) 780
- 9. Suppose, the seed of any positive integer is defined as follows: seed(n) = n, if n < 10
 = seed(s(n)), otherwise, where s(n) indicates the sum of digits of n. For example, seed (7) = 7, seed (248) = seed (2 + 4 + 8) = seed (14) = seed (1 + 4) = seed (5) = 5 etc. How many positive integers n, such that n < 500, will have seed (n) = 9?
 (1) 39
 (2) 72
 (3) 81
 (4) 108
 (5) 55
- 10. In a triangle ABC, the lengths of the sides AB and AC equal 17.5 cm and 9 cm respectively. Let D be a point on the line segment BC such that AD is perpendicular to BC. If AD = 3 cm, then what is the radius (in cm) of the circle circumscribing tire triangle ABC?
 (1) 17.05 (2) 27.85 (3) 22.45 (4) 32.25 (5) 26.25
- 11. What are the last two digits of 7^{2008} ?
(1) 21(2) 61(3) 01(4) 41(4) 81
- 12. If the roots of the equation $x^3 ax^2 + bx c = 0$ are three consecutive integers, then what is the smallest possible value of b?

(1) $-\frac{1}{\sqrt{3}}$ (2) -1 (3) 0 (4) 1 (5) $\frac{1}{\sqrt{3}}$

- 13. Consider obtuse-angled triangles with sides 8 cm, 15 cm and x cm. If x is an integer, then how many such triangles exist?(1) 5(2) 21(3) 10(4) 15(5) 14
- 14. How many integers, greater then 999 but not greater than 4000 can be formed with the digits 0, 1, 2, 3, and 4 if repetition of digits is allowed?
 (1) 499
 (2) 500
 (3) 375
 (4) 376
 (5) 501
- 15. What is the number of distinct terms in the expansion of $(a + b + c)^{20}$?(1) 231(2) 253(3) 242(4) 210(5) 228
- 16. Consider a square ABCD with midpoints E, F, G, H of AB, BC, CD and DA respectively. Let L denote the line passing through F and H. Consider points P and Q, on L and inside ABCD, such that the angles APD and BQC both equal 120°, What is the ratio of the area of ABQCDP to the remaining area inside ABCD?

(1)
$$\frac{4\sqrt{2}}{3}$$
 (2) $2+\sqrt{3}$ (3) $\frac{10-3\sqrt{3}}{9}$ (4) $1+\frac{1}{\sqrt{3}}$ (5) $2\sqrt{3}-1$

17. Three consecutive positive integers are raised to the first, second and third powers respectively and then added. The sum so obtained is a perfect square whose square root equals the total of the three original integers. Which of the following best describes the minimum, say m, of these three integers?

 $(1) \ 1 \le m \le 3 \qquad (2) \ 4 \le m \le 6 \qquad (3) \ 7 \le m \le 9 \qquad (4) \ 10 \le m \le 12 \qquad (5) \ 13 \le m \le 15$

- 18. Find the sum $\sqrt{1 + \frac{1}{1^2} + \frac{1}{2^2}} + \sqrt{1 + \frac{1}{2^2} + \frac{1}{3^2}} + \dots + \sqrt{1 + \frac{1}{2007^2} + \frac{1}{2008^2}}$ (1) $2008 - \frac{1}{2008}$ (2) $2007 - \frac{1}{2007}$ (3) $2007 - \frac{1}{2008}$ (4) $2008 - \frac{1}{2007}$ (5) $2008 - \frac{1}{2009}$
- 19. Two circles, both of radii 1cm, intersect such that the circumference of each one passes through the centre of the other. What is the area (in sq cm) of the intersecting region?

$$(1)\frac{\pi}{3} - \frac{\sqrt{3}}{4} \qquad (2)\frac{2\pi}{3} + \frac{\sqrt{3}}{2} \qquad (3)\frac{4\pi}{3} - \frac{\sqrt{3}}{2} \qquad (4)\frac{4\pi}{3} + \frac{\sqrt{3}}{2} \qquad (5)\frac{2\pi}{3} - \frac{\sqrt{3}}{2}$$

20. Rahim plans to drive from city A to station C, at the speed of 70 km per hour, to catch a train arriving there from B. He must reach C at least 15 minutes before the arrival of the train. The train leaves B, located 500 km south of A, at 8: 00 am and travels at a speed of 50 km per hour. It is known that C is located between west and northwest of B, with BC at 60° to AB. Also, C is located between south and southwest of A with AC at 30° to AB. The latest time by which Rahim must leave A and still catch the train is closest to.

- (1) 6:15 am (2) 6:30 am (3) 6: 45 am (4) 7:00 am (5) 7:15 am
- 21. Consider a right circular cone of base radius 4 cm and height 11 cm. A cylinder is to be placed inside the cone with one of the flat surfaces resting on the base of the conc. Find the largest possible total surface area (in sq cm) of the cylinder.

	80π	120π	130π	110π
$(1) - \frac{1}{3}$	$(2)\frac{1}{3}$	(3) $\overline{7}$	$(4) - \frac{1}{9}$	$(5) - \frac{1}{7}$
5	5	/	2	/

Directions for Questions 22 and 23:

Five horses Red, White. Grey, Black and Spotted participated in a race. As per the rules of the race, the persons betting on the winning horse get four times the bet amount and those betting on the horse that came in second get thrice the bet amount. Moreover, the bet amount is returned to those belting on the horse that came in third, and the real lose the bet amount Raju bets Rs. 3000, Rs.2000 and Rs.1000 on Red, White and Black horses respectively and ends up with no profit and no loss.

- 22. Which of the following cannot be true?
 - (1) At least two horses finished before Spotted
 - (2) Red finished last
 - (3) There were three horses between Black and Spotted
 - (4) There were three horses between While and Red
 - (5) Grey came in second
- 23. Suppose, in addition, it is known that Grey came in fourth. Then which of the following cannot be true?
 - (1) Spotted came in first
 - (2) Red finished last
 - (3) White came in second
 - (4) Black came in second
 - (5) There was one horse between Black and White

Directions for Questions 24 and 25:

Mark (1) if Q can be answered from A alone but not from B alone.

Mark (2) if Q can be answered from B alone but not from A alone.

Mark (3) if Q can be answered from A alone as well as from B alone.

Mark (4) if Q can be answered from A and B together but not from any of them alone.

Mark (5) if Q cannot be answered even from A and B together.

In a single elimination tournament, any player is eliminated with a single loss. The tournament is played in multiple rounds subject to the following ruts:

(a) If the number of players, say n, in any round is even, then the players are grouped in to n/2 pairs. The players in each pair play a match against each other and the winner moves on to the next round.

(b) If the number of players, say n, in any round is odd, then one of them is given a bye, that is, be automatically moves on to the next round. The remaining (n-1) players are grouped into (n-1)/2 pairs. The players in each pair play a match against each other and the winner moves on of the round. No player gets more than one bye in the tournarnent.

Thus, if n is even, then n!2 players move on to the next round while if n is odd, then (n + 1)/2 players move on to the next round. The process is continued till the final round, which obviously is played between two players. The winner in the final round is the champion of the tournament.

24. Q: What is the number of matches played by the champion?

- A: The entry list for the tournament consists of 83 players.
- B: The champion received one bye.
- 25. Q: If the number of players, say n, in the first round was between 65 and 128, then what is the exact value of n? A: Exactly one player received a bye in the entire tournament.
 - A: Exactly one player received a bye in the entire tournament.
 - B: One player received a bye while moving on to the fourth round from the third round

SECTION - II

This section contains: 25 questions

college.

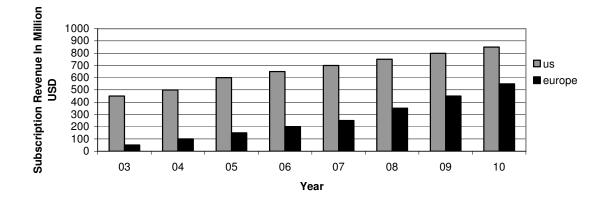
Directions for Questions 26 to 28: Answer the following questions based on the information given below: For admission to various affiliated colleges, a university conducts a written test with four different sections, each with a maximum of 50 marks. The following table gives the aggregate as well as the sectional cut-off marks fixed by six different colleges affiliated to the university. A student will get admission only if he/she gets marks greater than or equal to the cut-off marks in each of the sections and his/her aggregate marks are at least equal to the aggregate cut-off marks as specified by the

		Sectiona	Aggregate		
	Section	Section B	Section C	Section D	Cut-off Marks
	А				
College 1	42	42	42		176
College 2		45	45		175
College 3			46		171
College 4	43			45	178
College 5	45		43		180
College 6		41		44	176

- 26. Aditya did not get a call from even a single college. What could be the maximum aggregate marks obtained by him?(1) 181(2) 176(3) 184(4) 196(5) 190
- 27. Bhama got calls from all colleges. What could be the minimum aggregate marks obtained by her?(1) 180(2) 181(3) 196(4) 176(5)184
- 28. Charli got calls from two colleges. What could be the minimum marks obtained by him in a section?(1) 0(2) 21(3) 25(4) 35(5) 41

Directions for Questions 29 to 32: Answer the following questions based on the information given below.

The bar chart below shows the revenue received, in million US Dollars (USD), from subscribers to a particular Internet service. The data covers the period 2003 to 2007 for the United States (US) and Europe. The bar chart also shows the estimated revenues from subscription to this service for the period 2008 to 2010.



29. While the subscription in Europe has been growing steadily towards that of the US, the growth rate in Europe seems to be declining. Which of the Following is closest to the percent change in growth rate of 2007 (over 2006) relative to the growth rate of 2005 (over 2004)?
(1) 17
(2) 20
(3) 35
(4) 60
(5) 100

30.	The difference between	n the estimated subscript	ion in Europe in 2008 an	d what it would have be	en if it were computed using	
	the percentage growth rate of 2007 (over 2006), is closest to:					
	(1) 50	(2) 80	(3) 20	(4) 10	(5) 0	

31. In 2003, sixty percent of subscribers in Europe were men. Given that women subscribers increase at the rate of 10 percent per annum and men at the rate of 5 percent per annum, what is the approximate percentage growth of subscribers between 2003 and 2010 in Europe? The subscription prices are volatile and may change each year.
(1) 62
(2) 15
(3) 78
(4) 84
(5) 50

32. Consider the annual percent change in the gap between subscription revenues in the US and Europe. What is the year in which the absolute value of this change is the highest?
(1) 03-04
(2) 05-06
(3) 06-07
(4) 08-09
(5) 09-10

Directions for Questions 33 to 35: Answer the following questions based on the information given below.

There are 100 employees in an organization across five departments. The following table gives the department-wise distribution of average age average basic pay and allowances. The gross pay of an employee is the sum of his/her basic pay and allowances.

Department	Number of Employees	Average Age (Years)	Average Basic Pay (Rs.)	Allowances (% of Basic Pay)
HR	5	45	5000	70
Marketing	30	35	6000	80
Finance	20	30	6500	60
Business Development	35	42	7500	75
Maintenance	10	35	5500	50

There are limited numbers of employees considered for transfer/promotion across departments. Whenever a person is transferred/promoted from a department of lower average age to a department of higher average age. he/she will get an additional allowance of 10% of basic pay over and above his/her current allowance. There will not be any change in pay structure if a person is transferred / promoted from a department with higher average age to a department with lower average age.

Questions below are independent of each other

33. There was a mutual transfer of an employee between Marketing and Finance departments and transfer of one employee from Marketing to HR. As a result, the average age of finance department, increased by one year and that of marketing department remained the same. What is the new average age of HR department?

(1) 30
(2) 35
(3) 40
(4) 45
(5) cannot be determined

34. What is the approximate percentage change in the average gross pay of the HR department due to transfer of a 40-year old person with basic pay of Rs. 8000 from the Marketing department?
(1) 9% (2) 11% (3) 13% (4) 15% (5) 17%

35. If two employees (each with a basic pay of Rs. 6000) are transferred from Maintenance department to HR department and one person (with a basic pay of Rs.8000) was transferred from Marketing department to HR department, what will be the percentage change in average basic pay of HR department?

(1) 10.5%
(2) 12.5%
(3) 15%
(4) 30%
(5) 40%

Directions for Questions 36 to 40: Answer the following questions based on the information given below:

Abdul, Bikram and Chetan are three professional traders who trade in shares of a company XYZ Ltd. Abdul follows the strategy of buying at the opening of the day at 10 am and selling the whole lot at the close of the day at 3 pm. Bikram follows the strategy of buying at hourly.

Intervals: 10 am. 11 am, 12 noon, 1 pm and 2 pm, and selling the whole lot at the close of the day. Further, he buys an equal number of shares in each purchase. Chetan follows a similar pattern as Bikram but his strategy is some what different, Chetan's total investment amount is divided equally among his purchases. The profit or loss made by each investor is the difference between the sale values at the close of the day less the investment in purchase. The "return" For each investor is defined as the ratio of the profit or loss to the investment amount expressed as a percentage.

36. On a "boom" day the share price of XYZ Ltd. keeps rising throughout the day and peaks at the close of the day. Which trader got the minimum return on that day?

(1) Bikram	(2) Chetan	
(3) Abdul	(4) Abdul or Chetan	(5) cannot be determined

37. On a day of fluctuating market prices, the share price of XYZ Ltd. ends with a gain, i.e., it is higher at the close of the day compared to the opening value. Which trader got the maximum return on that day?(1) Bikram(2) Chetan

(1) Bikian (2) Chetan (2) Chetan (3) Abdul (4) Bikram or Chetan (5) cannot be determined

- 38. Which one of the following statements is always true?
 - (1) Abdul will not be the one with the minimum return
 - (2) Return for Chetan will be higher than that of Bikram
 - (3) Return for Bikram will be higher than that of Chetan
 - (4) Return for Chetan cannot be higher than that of Abdul
 - (5) None of the above

One day, two other traders, Done and Emily joined Abdul, Bikram and Chetan for trading in the shares of XYZ Ltd. Danc followed a strategy of buying equal number of shares at 10 am, 11 am and 12 noon, and selling the same numbers at 1 pm, 2 pm and 3 pm. Emily, on the other hand, followed the strategy of buying shares using all her money at 10 am and selling all of them at 12 noon and again buying the shares for all the money at 1 pm and again selling all of them at the close of the day at 3 pm. At the close of the day the following was observed.

- i. Abdul lost money in the transactions.
- ii. Both Dank and Emily made profits.
- iii. There was an increase in share price during the closing hour compared to the price at 2 pm,
- iv. Share price at 12 noon was lower than the opening price.
- 39. Which of the following is necessarily false?
 - (1) Share price was at its lowest at 2 pm
 - (2) Share price was at its lowest at 11 am
 - (3) Share price at 1 pm was higher than the share price at 2 pm

(4) Share price at 1 pm was higher than the share price at 12 noon

(5) None of the above

40.	Share price	was at its highest at
-----	-------------	-----------------------

(1) 10 am	(2) 11 am	
(3) 12 noon	(4) 1 pm	(5) cannot he determined

Directions for Questions 41 to 43: Answer the following questions based on the statements given below:

- (i) There are three houses on each side of the road.
- (ii) These six houses are labeled as P, Q, R, S, T and U.
- (iii) The houses are of different colors, namely. Red, Blue, Green, Orange, Yellow and White.
- (iv) The houses are of different heights.
- (v) T, the tallest house, is exactly opposite to the Red colored house.
- (vi) The shortest house is exactly opposite to the Green colored house.
- (vii) U, the Orange colored house, is located between P and S.
- (viii) R, the Yellow colored house, is exactly opposite to P.
- (ix) Q, the Green colored house, is exactly opposite to U,
- (x) P, the White colored house, is taller than R, but shorter than S and Q.

41.	What is the color of the (1) Red	tallest house? (2) Blue	(3) Green	(4) Yellow	(5) None of these
42.	What is the color of the (1) White	house diagonally oppos (2) Blue	ite to the Yellow colored (3) Green	house? (4) Red	(5) None of these
43.	Which is the second tall (1) P (3) Q	est house?	(2) S (4) R	(5) cannot be determi	ned

Direction for Questions 44 to 47: Answer the following questions based on the information given below:

In a sports event, six teams (A, B, C, D, E and F) are competing against each other. Matches are scheduled in two stages. Each learns plays three matches in Stage-I and two matches in Stage-II. No team plays against the same team more than once in the event. No ties are permitted in any of the matches. The observations after the completion of Stage-I and Stage-II are as given below.

Stage-I:

- One team won all the three matches.
- Two teams lost all the matches.
- D lost to A but won against C and F.
- E lost to B but won against C and F.
- B lost at least one match.
- F did nut play against the top team of Stage-I.

Stage-II:

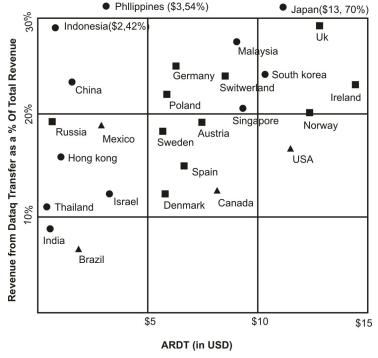
- The leader of Stage-I lost the next two matches.
- Of the two teams at the bottom after Stage-I, one team won both matches, while the other lost both matches.
- One more team lost both matches in Stage-II.

44.	4. The team (s) with the most wins in the event is (are):						
	(1) A	(2) A & C	(3) F	(4) E	(5) B & E		
45.	5. The two teams that defeated the leader of Stage-I are:						
	(1) F & D	(2) E & F	(3) B & D	(4) E & D	(5) F & D		

46. The only team (s) that won both matches in Stage-II is (are):

(1) B	(2) E & F	(3) A. E & F	(4) B, E & F	(5) B & F			
7. The teams that won exactly two matches in the event are:							
(l) A, D & F	(2) D & E	(3) E & F	(4) D, E & F	(5) D & F			

Directions for Questions 48 to 50: Answer the following questions based on the information given below. Telecom operators get revenue from transfer of data and voice. Average revenue received from transfer of each unit of data is known as ARDT. In the diagram below, the revenue received from data transfer as percentage of total revenue received and the ARDT in US Dollars (USD) are given for various countries.



Legends ● Asia ■ Europe ▲ America

48. If the total revenue received is the same for the pairs of countries listed in the choices below, choose the pair That has approximately the same volume of data transfer.

(1) Philippines and Austria	(2) Canada and Poland	
(3) Germany and USA	(4) UK and Spain	(5) Denmark and Mexico

- 49. It was found that the volume of data transfer in India is the same as that of Singapore. Then which of the following statements is true?
 - (1) Total revenue is the same in both countries

47

- (2) Total revenue in India is about 2 times that of Singapore
- (3) Total revenue in India is about 4 times that of Singapore
- (4) Total revenue in Singapore is about 2 times that of India
- (5) Total revenue in Singapore is about 4 times that of India

50. It is expected that by 2010, revenue from data transfer as a percentage of total revenue will triple for India and double for Sweden. Assume that in 2010, the total revenue in India is twice that of Sweden and that the volume of data transfer is the same in both the countries. What is the percentage increase of ARDT in India if there is no change in ARDT in Sweden?

 (1) 400%
 (2) 550%

(2) 300% (2) 50% (4) 950%

(5) cannot be determined

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SECTION - III

This section contains: 40 questions

Directions for Questions 51 to 54: In each question, there are five sentences. Each sentence has a pair of words that are italicized and highlighted. From the italicized and highlighted words, select the most appropriate words (A or B) to form correct sentences. The sentences are followed by options that indicate the words, which may be selected to correctly complete the set of sentences. From the options given, choose the most appropriate one.

51.	If you want to complain I would like your advic	n about the amenities in e (A)/advise (B) on wh l a climatic (A)/climatic	on the lapel of her jacket. a your neighborhood, plea ich job I should choose. c (B) ending to the film. in fashion these days. (3) BAAAB		or (A)/counselor (B). (5) BAABA	
52.	He has the same capaci	xceptionable (A)/excep ty as an adult to consen (A)/compelled (B) to re	tionable (B) behavior, 1 at (A)/assent (B) to surgic eport regularly to a parlia	al treatment.	sh you. (5) BABAB	
53.		d and valid (A)/cogent (lverse (B) to helping ou) broke away as the trai	in climbed the hill.		(5) BBBBA	
54.	54. We were not successful in defusing (A)/diffusing (B) the Guru's ideas. The students baited (A)/bated (B) the instructor with irrelevant questions. The board (A)/horde (B) rushed into the campus.					
	The prisoner's interment (A)/internment (B) came to an end with his early release.The hockey team could not deal with his unsociable (A) tendencies.(1) BABBA(2) BBABB(3) BABAA(4) ABBAB(5) AABBA					
	Directions for Questions 55 to 58: In each of the following question there are sentences that form a paragraph. Identify the sentence(s) or part(s) of sentence (s) that is /are correct in terms of grammar and usage (including spelling, punctuation and logical consistency). Then, choose the most appropriate option.					
55.	A. In 1849, a poor Bav	arian immigrant named	Levi Strauss			

- B. Landed in San Francisco, California.
 - C. At the invitation of his brother-in-law David Storm
 - D. Owner of dry goods business.
 - E. This dry goods business would later become known as Levi Strauss & company.
 - (1) B only (2) B and C (3) A and B (4) A only (5) A, B and D
- 56. A. In response to allegations and condemnation pouring in.
 - B. Nike implemented comprehensive changes in their lab our policy.
 - C. Perhaps sensing the rising tide of global lab our concerns,

Page 10 of 17

	D. From the public would become a prominent media issue,					
	E. Nike sought to be a in	ndustry leader in employ				
	(1) D and E	(2) D only	(3) A and E	(4) A and D	(5) B, C and E	
57.	A. Charges and counterc B. To the few million wl C. The nightmare is far f D. Is still unable to reach E. The death count have (1) A only	ho have lost their home from over, for the gover h hundreds who are man	rnment.	(4) A,C and D	(5) D only	
	(1) 11 only	(2) C only	(5) 11 and 0	(1) 11,0 und D	(5) D only	
58.	 A. I did not know what to make of you. B. Because You'd lived in India; I associate you more With my parents than with me. C. And yet you were unlike my consigns in Calcutta, who seem so innocent and obedient when I visited them. D. You were not curious about me in the least. E. Although you did make effort to meet me. (1) A only (2) A and B (3) A and E (4) D only (5) A and D 					
	ections for Questions 59 pairs of words. Choose the			entence with two blanks.	Given below each question are	
59.	 9. The genocides in Bosnia Rwanda, apart from being mis-described in the most sinister and manner as 'ethnic cleansing', were also blamed, in further hand-washing rhetoric, on something dark and interior to and perpetrators alike. (1) Innovative; communicator (2) enchanting; leaders 					
	(3) Disingenuous; victim	18	(4) exigent; exploiters		(5) tragic; sufferers	
60.	60. As navigators, calendar makers, and other of the night sky accumulated evidence to the contrary, ancient astronomers were forced to that certain bodies might move in circles about points, which in turn moved in circles about the earth. (1) Scrutinizer; believe (2) observers; agree (3) Scrutinizers; suggest (4) observers; concede					
61.					one hand, there is his	
	endowment; and on the of (1) Constitution weather		(2) congenital; educati			
	(3) Personal; climate		(4) economic; learning		(5) genetic; pedagogy	
62.	 62. Exhaustion of natural resources, destruction of individual initiative by governments. control over men's minds by central of education and propaganda are some of the major evils which appear to be on the increase as a result of the impact of upon minds suited by to an earlier kind of world. (1) belief; fixation (2) aspects; inhibitions 					
	(3) institutions; inhibitio	ns	(4) organs; tradition		(5) departments; repulsion	
	Directions for Questions 63 to 66: In each of the questions, a word has been used in sentences in five different ways. Choose the option corresponding to the sentence in which the usage of the word is incorrect of inappropriate.					
63.	Run					
	(1) I must run fast to cate(3) You can't run over h(5) This film is a run-of-	im like that.		goal against the run of p d book is enjoying a pop		
64.	Round					
5	(1) The police fired a rot(3) We took a ride on the		(2) The shop is located(4) The doctor is on a			

(3) We took a ride on the merry-go-round. (4) The doctor is on a hospital round.

- (5) I shall proceed further only after you come round to admitting it.
- 65. Buckle
 - (1) After long like our knees was beginning to buckle.

- (2) The horse suddenly broke into a buckle.
- (3) The accused did not buckle under police interrogation.
- (4) Sometimes, an earthquake can make a bridge buckle.
- (5) People should learn to buckle up as soon as they get into a car
- 66. File
 - (1) You will find the paper in the file under C. (2) I need to file an insurance claim.
 - (3) The cadets were marching in a single file. (4) File your nails before you apply nail polish.
 - (5) When the parade was on, a soldier broke the file.

Directions for Questions 67 to 70: Each of the following questions has a paragraph from which the last sentence has been deleted. From the given options, choose the sentence that completes the paragraph in the most appropriate way.

- 67. Most people at their first consultation take a stealthy look at the surgeon's hands in the hope of reassurance. Prospective patients look for delicacy, sensitivity, steadiness, perhaps unblemished pallor. On this basis, Henry prone loses a number of cases each year. Generally, he knows it's about to happen before the patient does; the downward glance repeated, the prepared questions beginning to falter, the overemphatic thanks during the retreat to the door.
 - (1) Other people do not communicate due to their poor observation.
 - (2) Other patients don't like what they see but are ignorant of their right to go else where.
 - (3) But prone he is not concerned.
 - (4) But others will take their place, he thought.
 - (5) These hands are steady enough, but they are large.
- 68. Trade protectionism, disguised as concern for the climate, is raising its head. Citing competitiveness concerns, powerful industrialize countries are holding out threats of a levy on imports of energy-intensive products from developing countries that refuse to accept their demand. The actual source of protectionist sentiment in the OECD countries is, of course, their current lackluster economic performance, combined with the challenges posed by the rapid economic rise of China and India-in that order.
 - (1) Climate change is evoked to bring trade protectionism thought the back door.
 - (2) OECD countries are taking refuge in climate change issues to erect trade barriers against these two countries.
 - (3) Climate change concerns have come as a convenient stick to bear the rising trade power of China and India.
 - (4) Defenders of the global economic status quo are posing as climate change champions.
 - (5) Today's climate change champions are the perpetrators of global economic inequity.
- 69. Mattancherry is India Jewry's most famous settlement sarong, Its pretty streets of pastel colored houses, connected by firstfloor passages and ho Jewry's me to the last twelve sari-and-wearing, white-skinned Indian jews are visited by thousands of tourists each year its synagogue, built in 1568, with a floor of blue-white Chinese tiles, a stands, a carpet given by Hailer Seaside and the frosty Yahweh selling tickets at the door, stands as an image of religious tolerance.
 - (1) Mattancherry represents, therefore, the perfect picture of peaceful co-existence.
 - (2) India's jaws have almost never suffered discrimination, except for European colonizers and each other.
 - (3) Jews in India were always tolerant.
 - (4) Religious tolerance has always been only a facade and nothing more.
 - (5) The pretty pastel streets are, thus very popular with tourists.
- 70. Given the cultural and intellectual interconnections, the questions of what's Western' and what is 'Eastern' (or 'Indian') is often hard to decide, and the issue can be discussed only in more dialectical terms. The diagnosis, of a thought as 'purely western' or ' purely Indian ' can be very illusory.
 - (1) Thoughts are not the kind of things that can be easily categorized.
 - (2) Thought 'Occidentalism' and 'Orientals' as dichotomous concepts have found many adherents.
 - (3) 'East is East and West is West' has been a discredited notion for a long time now.
 - (4) Compartmentalizing thoughts is often desirable.
 - (5) The origin of a thought is not the kind of thing to which 'purity' happens easily.

Directions for Questions 71 to 75: The passage given below is followed by a set of five questions; choose the most appropriate answer to each question.

Language it not a cultural artifact that we learn the way we learn to tell time of how the federal government works. Instead, it is a distinct piece of the biological makeup of our brains. Language is complex, specialized skill. Which develops in the child spontaneously, without conscious effort or format instruction, is deployed without awareness of its underlying logic, is

qualitatively the same in every individual, and is distain from general abilities to process information or behave in diligently. For these reasons some cognitive scientists have described language as a psychological faculty, a mental organ, a neural system, and a computational module. But I prefer the admittedly quaint tern, "instinct" It conveys the idea that people know how to talk in more or less the sense that spiders know how to spin webs. Web-spinning was not invented by some unsung spider genius and does not depend on having had the right education or on having an aptitude for architecture or the construction trades. Rather, spiders spin spider webs because they have spider brains, which give them the urge to spin and the competence to succeed. Although there are differences between webs and words, I will encourage you those language in this way, for it helps to make sense of the phenomena we will explore.

Thinking of language as an instinct inverts the popular wisdom, especially as it has been passed down in the cannot of the humanities and social sciences. Languages are no more a cultural invention than is upright posture. It is not a manifestation of a general capacity to use symbols: a three-Year-old, we shall we, is a grammatical genius, but is quite incompetent at the visual arts, religious iconography, traffic signs, and the other staples of the semiotics curriculum. Though language is a magnificent ability unique to Home sapiens among living species, it does not call for sequestering the study of human from the domain of biology. for a magnificent ability unique to a particular living species is far from unique in the animal migratory birds navigate thousands of miles by calibrating the positions of the constellations against the time of day and year in nature's talent show. we are simply a species of primate with our own act, a knack for communicating information about who did what to whom by modulating the sounds we make when we exhale.

Once you begin to look at language not as the ineffable essence of human uniqueness but as a biological adaptation to communicate information, it is no longer as tempting to see language as an insidious shaper of thought, and, we shall see, it is not . Moreover, seeking language as one of nature's engineering marvels an organ with "that perfection of structure and co-adaptation which justly excites our admiration," in Drawing's words - gives us a new respect for your ordinary Joe and the much-maligned English language (or any language). The complexity of language, from the scientist's points of view, is part of our biological birthright; it is not Oscar wiled said, "Education is an admirable thing, but it is well to remember from time to time that nothing that is worth knowing can be taught." A preschooler's tacit knowledge of grammar is more sophisticated than the thickest style manual or the most state-of-the-art computer language system, and the same applies to all healthy human beings, even the notorious syntax-fracturing professional athlete and the, you know, like, inarticulate teenage skateboarder. Finally, since language is the product of a well-engineered biological instinct, we shall see that it is not the nutty barrel of moneys that entertainer-columnists make it out to be.

- 71. According to the passage, which of the following does not stem from popular wisdom on language?
 - (1) Language is cultural artifact.
 - (2) Language is a cultural invention.
 - (3) Language is learnt as we grow.
 - (4) Language is unique to Homo sapiens.
 - (5) Language is a psychological faculty.
- 72. Which of the following can be used to replace the "spiders know to spin webs" analogy as used by used by the author? (1) A kitten learning to jump over a wall
 - (2) Bees collection note
 - (3) A donkey carrying a load
 - (4) A horse running a Derby
 - (5) A pet dog protecting its owner's property
- 73. According to he passage, which of the following is unique to human beings?
 - (1) Ability to use symbols while communicating with one another.
 - (2) Ability to communicate with each other through voice modulation.
 - (3) Ability to communicate information to other members of the species.
 - (4) Ability to use sound as means of communication.
 - (5) All of the above.
- 74. According to the passage, complexity of language cannot be taught by parents or at school to children because.
 - (1) Children instinctively know language.
 - (2) Children learn the language on their own.
 - (3) Language is not annexable to teaching.
 - (4) Children know language better than their teachers or parents.
 - (5) Children are born with the knowledge of semiotics.

- 75. Which of the following best summarizes the passage?
 - (1) Language is unique to Home sapiens.
 - (2) Language is neither learnt nor taught.
 - (3) Language is not a cultural invention or artifact as it is made out.
 - (4) Language is instinctive ability of human beings.
 - (5) Language is use of symbols unique to human beings.

Directions for Questions 76 to 80: The passage given below is followed by a set of five questions Choose the most appropriate answer to each question.

When I was little, children were bought two kinds of ice-cream, sold from those while wagons with canopies made of silvery metal: either the two-cent cone or the four-cent ice-cream pie. The two-cent cone was very small, in fact it could fit comfortably into a chilies hand, and it was made by taking the ice cream from its container with a special scoop and piling it on the cone. Granny always suggested I eat only a part of the cone, then throw away the pointed end- because it had been touched by the vendor's hand (though that was the best part, nice and crunchy, and it was regularly eaten in secret after a preteen of discarding it)

The four-cent pie was made by a special little machine, also silvery, which pressed two disks of sweet biscuit against a cylindrical section of ice-cream. First you had to thrust your tongue into the gap. Between the biscuits: until it touched the control nucleus of ice-cream; then gradually, you are the whole thing, the biscuit sumacs softening as they became soaked in creamy nectar, Granny had no advice to give here in theory the pies had been touched only by the machine; in practice, the vendor had held them in his hand while giving them to us, but it was impossible to isolate the contaminated area.

I was fascinated, however, by some of my peers, whose parents bought them not a four-cent pie but two two-cent cones. These privileged children advanced proudly with one cone in their right hand and one in their left, and expertly moving their head from side to, they licked first one, then the other. This liturgy seemed to me so sumptuously enviable, that many times 1 asked to be allowed to celebrate it. In vain. My elders were inflexible: a four-cent ice, yes, but two two-cent ones, absolutely no.

As anyone can see, neither mathematics nor economy nor dietetics justified this refusal. Nor did hygiene, assuming that in due course the tips of both cones were discarded. The pathetic, and obviously mendacious, justification was that a boy concerned with turning his eyes from one cone to the other was more inclined to stumble over stones, steps, or cracks in the pavement. I dimly sensed that there was another sec ret justification, cruelly pedagogical, but I was unable to grasp It.

Today, citizen and victim of a consumer society, a civilization of excess and waste (which the society of the thirties was not), I realize that those dear and now departed elders were right. Two two -cent cones instead of one at four cents did not Signify squandering, economically speaking, but symbolically they surely did. it was for this precise reason, that I yearned for them because two ice-creams suggested excess. And this was precisely why they were denied to me: because Dicey looked indecent, an insult to poverty, a display of fictitious privilege, a boas of wealth. Only spoiled children ate two cones at once, those children who in fairy tales were rightly punished, as Pinocchio was when he rejected the skin and the stalk. And parents who encouraged this weakness, appropriate to little parvenus, were bringing up their children in the foolish theatre of "I" d like lo but 1 can "y" They were preparing them lo turn up al tourist-class check-in with a fake Gucci bag Hough from a street peddler on the beach at Rimming.

Nowadays the moralist risks seeming at odds with morality, in a world where the consumer civilization now -wants even adults to be spoiled, and promises them always something more, from the wristwatch in the box of detergent to the bonus bangle sheathed, with the magazine it accompanies, in a plastic envelope. Like the parents of those ambidextrous gluttons I so envied, the consumer civilization pretends to give more, but actually gives, for four cents, what is worth cents. You will throw away the old transistor radio to purchase the new one, that boasts an alarm clock as well, but some inexplicable defect in the mechanism will guarantee that the radio lasts only a year. The new cheap car will have tether scats, double side mirrors adjustable from inside, and a paneled dashboard, bull it will not last nearly so long as the glorious old Fiat 500, which, even when it broke down, could be started again with a kick.

The morality of the old days made Spartans of us all, while today's morality wants all of us to be Sybarites,

- 76. which of the old following cannot he inferred from the passage?
 - (1) Today's society is more extravagant they the society of the 1930s.
 - (2) The act of eating two ice cream cones is akin to a ceremonial process.
 - (3) Elders rightly suggested that a boy turning eyes from one cone to the other was more likely to fall.
 - (4) Despite teeming to promise more, the consumer civilization gives away exactly what the thing is worth.

(5) The consumer civilization attempts to spoil children and adults alike.

77.	In the passage, the phrase "little parvenus" refe (1) Naughty midgets. (2) Old hags.	rs to (3) Arrogant people.	(4) Young upstarts.	(5) Foolish kids.	
78.	The author pined for two-cent cones instead of (1) It made dietetic sense. (3) It was more fun. (5) He was a glutton.	Fone four-cent pie becaus (2) It suggested intemp (4) It had a visual appe	perance.		
79.	 79. What does me author mean by "nowadays the moralist risks seeming at odds with morality"? (1) The moralist of yesterday has heroic immoral today. (2) The concept of morality has changed over tin: years. (3) Consumerism is amoral. (4) The risks associated with immorality have gone up. (5) The purist's view of morality is fast becoming popular. 				
80.	According to the author, the justification for re (1) Didactic. (2) Dietetic.	fusal to let him eat two c (3) Dialectic	ones was plausibly. (4) diatonic.	(5) Diastolic.	

Directions for Questions 81 to 85: The passage given below is followed by a set of five questions. Choose the most appropriate answer to each question.

A remarkable aspect of art of the present century is the range of concept and ideologies which it embodies. It is almost tempting to see a pattern emerging within the art field - or alternatively imposed upon it is a posteriori-similar to that which exists under the umbrella of science where the general term covers a whole range of separate, though interconnecting activities. Any parallelism is however - in this instance at least - misleading. A scientific discipline develops systematically once its bare tenets have been established, named and categorized as conventions. Many of the concepts of modem art by contrast, have resulted from the almost accidental meetings of group of talented individuals at certain times and certain places. The ideas generated by these chance meeting had twofold consequences Firstly, a corpus of work would be produced which, in great part, remains as a concrete record of the events. Secondly, the ideas would themselves be disseminated through many different channels of communication - seeds that often bore fruit in contexts far removed from their generation. Not all movements were exclusively concerned with innovation. Surrealism, for instance, claimed to embody a kind of insight which can be present in the aril of any period. this claim has been generally accepted so that a sixteenth century painting by or a mysterious photograph by Aglet can legitimately be discussed in surrealist terms Briefly, then, the concepts of modem art are of many different (often fundamentally different) kinds and resulted from the exposures of painters, sculptors and thinkers to the more complex phenomena of the twentieth century. Including our ever increasing knowledge of the thought and products of earlier centuries. Different groups of amitosis would collaborate in trying to make sense of a rapidly changing world of visual and spiritual experience. We should hardly be surprised if no one group succeeded completely, but achievements, though relative, have been considerable. Landmarks have been established - concrete statements of position which give a pattern to a situation which could easily have degenerated into total chaos. Beyond this now language tools have been created for those who follow - semantic systems which can provide a springboard for further explorations.

The codifying of art is often criticized. Certainly one can understand that artists are wary of being pigeon-holed since they are able to think of themselves as individual - sometime with good reason. The notion of self -expression, however, no longer carries quite the weight it once did; objectivity has its defenders. There is good reason to accept the ideas codified by artist1 and critics, over the past sixty years or so, as having attained the status of independent existence - an independence which is not without its own value. The time factor is important here. As an art movement, slips into temporal prospective, it causes to be living organism - becoming rather, a fossil. This is not to say that it becomes useless or uninteresting. Just as a scientist can reconstruct the life of a prehistoric environment from the messages to condition into the structure of a fossil, so can an artist decipher whole webs of intellectual and creative possibility from the recorded structure to a 'dead' art movement The artist can match the creative patterns crystallized into this structure against the potentials am possibilities of his own time. As T.S. Eliot observed, no one starts anything from scratch; however consciously you may try to live in the present, you are still involved with nexus of behavior patterns patters bequeathed from the past. The original and creative person is not someone who ignores these patterns, but someone who is able to translate and develop them so that they conform more exactly to his - and our - present needs.

81. Many of the concepts of modern art have been the product of

- (1) Ideas generated from planed deliberations between artists, painters and thinker.
- (2) the dissemination of ideas trough the state and its organization.
- (3) Accidental interactions among people blessed with creative muse.
- (4) Patronage by the rich and powerful that supported art.
- (5) Systematic investigation, codification and conventions.
- 82. In the passage, the word 'fossil' can be interpreted as
 - (!) an art movement that had ceased to remain interesting or useful.
 - (2) an analogy from the physical world to indicate a historic art movement.
 - (3) an analogy from the physical world to indicate the barrenness of artistic editions in the past.
 - (4) an embedded codification of pre-historic life.
 - (5) an analogy from the physical world to indicate the passing of an area associated with an art movement.
- 83. In the passage, which of the following similarities between science and art may lead to erroneous conclusion?
 - (1) Both, in general, include a gamut of distinct but interconnecting activities.
 - (2) Both have movements not necessarily concerned with innovation.
 - (3) Both depend on collaborations between talented individual.
 - (4) Both involve abstract thought and dissemination of ideas.
 - (5) Both reflect complex priorities of the modern world.
- 84. The range of concepts and ideologies embodied in the art of the twentieth century is explained by.
 - (1) The existence of movements such as surrealism.
 - (2) Landmarks which give a pattern in the art history of the twentieth century.
 - (3) New language tools which can be used for further explorations into new areas.
 - (4) The last changing world of perceptual and transcendental understanding,
 - (5) The quick exchange of ideas and concepts enabled by efficient technology.
- 85. The passage uses an observation by T.S. Eliot to imply that.
 - (1) Creative processes are not 'original" because they always borrow from the past.
 - (2) We always carry forward the legacy of the past.
 - (3) Past behaviors and thought processes recreates themselves in the present and get labeled as 'original' or 'creative'
 - (4) 'Originality' can only thrive in a 'greenhouse' insulated from the past hisses.
 - (5) "Innovations" and "original thinking" interpret and develop on past thought to suit contemporary needs.

Directions for Question 86 to 90: The passage given below is followed by a set of five questions. Choose the most appropriate answer to each question.

To summarize the Classic Maya collapse, we can tentatively identify five stands. I acknowledge, however, that Maya archaeologists still disagree vigorously among themselves in part, because the different strands evidently varied in importance among different parts of the Maya realm; because detailed archaeological studies are available for some Maya sites; and because it remains puzzling why most of the Maya heartland remained nearly empty of population and failed to recover after the collapse and after re-growth of forests.

With those caveats, it arrears to me that one strand consisted of population growth outstripping available recourse: a dilemma similar to the one foreseen by Thomas Mathis in 1798 and being played out today, in Rwanda. Haiti and elsewhere. As the archaeologist David Webster succinctly puts it, "Too many farmers grew too many crops on too much of landscape." Compounding that mismatch between population and resources was the second strand: the effects of deforestation and hillside corrosion, which caused a decrease in the amount of usable farmland at a time when more rather then less fenland was needed, and possibly exacerbated by an anthropogenic drought resulting from deforestation, by soil nutrient depletion and other soil problems, and by the struggle to prevent bracken farms from overrunning the fields.

The third strand consisted of increased fighting, as more and more people fought over fewer resources. Maya warfare, already endemic, peaked just before the collapse. That is not surprising when one reflects that at least five million people, perhaps many more, were crammed into an area smaller than the US state of Colorado (104,000 square miles). That warfare would have decreased further the amount of land available for agriculture, by crating no-man's lands between principalities where it was now unsafe to farm. Bringing matters to a head was the strand of climate change. The drought but it was the most sever. At the time of previous droughts, there were still uninhabited pars of the Maya landscape, and people at a site affected by drought could save themselves by moving to another site. However, by the time of the Classic collapse the begin landscape

was now full, there was no useful unoccupied land in the vicinity on which to begin anew, and the whole population could not be accommodated in the few areas that continued to have reliable water supplies.

As our fifth strand, we have to wonder why the kings and nobles failed to recognize and solve these seemingly obvious problems undermining their society. Their attention was evidently focused on their short-tern concerns of enriching themselves, waging wars, erecting monuments. Competing with each other, and extracting enough food from the peasants to support all those activates. Like most leaders throughout human history, the Maya kings and nobles did no heed long-tern problems, insofar as perceived them.

Finally, while we still have some other past societies to consider before we switch our attention to the modern world. we must already be struck by some parallels between the Maya and the past societies. As on Mangrove, the Maya environmental and population problems led to increasing warfare and civil strife. Similarly, on Easter Island and at Chaco Canyon, the Maya peak population numbers were followed swiftly by political and social collapse. Paralleling the eventual extension of agriculture from Easter Island's coastal lowlands to its uplands, and from the member's floodplain to the hills, Copan's inhabitants also expanded from the floodplain to the more fragile hill went bust. ;like Easter island chiefs creating ever larger statues, cventually crowned by puma, and like Anastasia elite treating themselves to necklaces of 2,000 turquoise.

Board, Maya kings sought to outdo each other with and more impressive temples, covered with thicker and thicker plaster - reminiscent in turn of the extravagant conspicuous consumption by modern American CEOs. The passivity of Easter chiefs and Maya kings in the face of the react big thereat to their societies completes our list of disquieting parallels.

- 86. According to the passage, which of the following best represents the factor that has been cited by the author in the context of Rwanda and Haiti?
 - (1) Various ethnic groups competing for land and other resources
 - (2) Various ethnic groups competing for limited land resources
 - (3) Various ethnic groups fighting with each other
 - (4) Various ethnic groups competing for political power
 - (5) Various ethnic groups fighting for their identity
- 87. By an anthropogenic drought, the author means
 - (1) a drought caused by lack of rains.
 - (2) a drought caused due to deforestation.
 - (3) a drought caused by failure to prevent bracken ferns from overrunning the fields.
 - (4) a drought caused by actions of human beings.
 - (5) a drought caused climate changes.
- 88. According to the passage, the drought at the time of Maya collapse had a different impact compared to the droughts earlier because.
 - (1) the Maya kings continued to be extravagant when common people were suffering.
 - (2) It happened at the time of collapse of leadership among Mayas.
 - (3) It happened when the Maya population had occupied all available land suited for agriculture.
 - (4) Is was followed by intimacies warfare among Mayans.
 - (5) Irreversible environmental degradation led to this drought.
- 89. According to the author, why is it difficult to explain the reasons for Maya collapse?
 - (1) Copan inhabitants destroyed all records of that period.
 - (2) The constant deforestation and hillside erosion have wiped out all traces of the Maya kingdom.
 - (3) Archaeological sites of Mayas do not provide any consistent evidence.
 - (4) It has not been possible to ascertain which of the factors best explains as to why the Maya civilization collapsed.
 - (5) At least five million people were crammed into a small area.
- 90. Which factor has not been cited as one of the factors causing the collapse of Maya society?
 - (1) Environmental degradation due to excess population.
 - (2) Social collapse due to excess population.
 - (3) Increased warfare among Maya people.
 - (4) Climate change.
 - (5) Obsession of Maya population with their own short-tern concerns.