- After trying to convince him for a long time, I realized that he was one of those people who never listens to reason.
 - (a) he was one of those people who never listen to reason.
 - (b) he was one of those people who never listen to reasoning.
 - (c) he is one of those people who never listen to reason. (d) he is one of those people who never listens to reason.
- 72. The number of children seeking admission to this college has risen sharply this year, even though it may be only
 - temporarily.

 (a) even though the rise may be only temporary.
 - (b) but it may be a temporary rise only.
 - (c) but the rise may be only temporary.
 - (d) but such a rise may only be a short lived one.

Directions (73–76): Each of the following questions contains a small paragraph. Read the paragraph carefully and complete the sentence given below each.

- 73. The consumption of harmful drugs by the people can be prevented not only by banning their sale in the market but also by instructing users about their dangerous effects which they must understand for their safety. Also the drug addicts may be provided with proper medical facilities for their rehabilitation. This will help in scaling down the use of drugs.
 - The passage best supports the statement that consumption of harmful drugs:
 - (a) is on increase in the society.
 - (b) is due to lack of medical facilities.
 - (c) can always be reduced.
 - (d) can be eliminated with the help of banning their sale.
- 74. The school has always been the most important means of transferring the wealth of tradition from one generation to the next. This applies today in an even higher degree than in former times for, through the modern development of economy, the family as bearer of tradition and education has become weakened.
 - This passage best supports the statement that for transferring the wealth of tradition from one generation to the next:
 - (a) there are means other than the school.
 - (b) economic development plays a crucial role.
 - (c) several different sources must be tried.
 - (d) modern technology must be put to use.
- 75. One of the important humanitarian by-products of technology is the greater dignity and value that it imparts to human labour. In a highly industrialized society, there is no essential difference between Brahmin and Dalit, Muslim and Hindu; they are equally useful and hence equally valuable, for in the industrial society individual productivity fixes the size of the pay cheque and this fixes social status.
 - The passage best supports the statement that :
 - (a) technology decides individual's social status.
 - (b) human labour has dignity and value.
 - (c) castes and religions are man made.
 - (d) all individuals, irrespective of caste and creed, are born equal.
- 76. There is a shift in our economy from a manufacturing to a service orientation. The increase in service-sector will require the managers to work more with people rather than with objects and things from the assembly line.
 - This passage best supports the statement that :
 - (a) managers should have a balanced mind.
 - (b) interpersonal skills will become more important in the future work place.

- (c) assembly line will exist in service organizations.
- (d) manufacturing organizations ignore importance of people.
- Directions (77-80): In each of the questions below four sentences are given which are denoted by (A), (B), (C) and (D). By using all the four sentences you have to frame a meaningful paragraph. Choose the correct order of the sentences from the four alternatives.
- 77. (A) You would be very surprised indeed to find it hot.
 - (B) Cold, of course.
 - (C) And yet that was what I found when I visited North Island, the northern part of New Zealand.
 - (D) When you go bathing in a river or a pond, do you expect the water to be hot or cold?
 - (a) ACBD
 - (b) CABD
 - (c) ACDB
 - (d) DBAC
- 78. (A) Because, if the manager's subordinates are inefficient and ineffective and are not helped to increase their efficiency and effectiveness, the task may not be achieved.
 - (B) This must be just as true as the responsibility for achieving his prescribed tasks.
 - (C) If it is achieved it is at too great a cost, or at the risk of other effects, many of which are less obvious.
 - (D) It is often and that one of the prime responsibilities of a manager is the training and development of his staff.
 - (a) ADBC
 - (b) CABD
 - (c) BDAC
 - (d) DBAC
- (A) Modern research, however, has proved that there were invaders even before the Aryans poured into this land.
 - (B) It was thought that they came to a country which was uncivilized and barbarian.
 - (C) They had evolved a civilization higher than that of the Aryan hordes who came in their wake.
 - (D) Till recently the Aryans were regarded as the earliest invaders of the land.
 - (a) ABCD (b) BCAD
 - (c) BDAC (d) DBAC
- (A) Organizations today are becoming increasingly populated by youthful, highly skilled, highly educated workers.
 - (B) Two of the most prevalent and provocative organizational dynamics of our time are the themes of participation and change.
 - (C) These demands for participation are creating pressures for internal organizational change which are matched only by external environmental pressures for organizational change.
 - (D) These young, skilled and educated workers bring with them demands for a voice in the determination of their own organizational destiny—a chance to participate in those decisions which affect their organizational lives.
 - (a) ABDC (c) ABCD
- (b) BADC(d) BCDA
- 81. There are 4 candidates for the post of a lecturer in Mathematics and one is to be selected by votes of 5 men. The number of ways in which the votes can be given is:
 - (a) 1048
- (b) 1072
- (c) 1024
- (d) None of these

	82. The number of ways in which 6 men and 5 women can dine at a round table if no two women are to sit together is (a) 6!×5!	91. An aeroplane flying at a height of 300 metres above the ground passes vertically above another plane at an instant when the angles of elevation of the two planes from the same
	(b) 5!× 4! (c) 30	height of the lower plane from the ground in metres is
	(d)7!×5!	(a) 10073
8	33. A student is to answer 10 out of 13 questions in an	(b) 50
		(c) $100 / \sqrt{3}$ (d) $150 (\sqrt{3+1})$
	first five questions. The number of choices available to him is:	
	(a) 140	92. A person standing on the bank of a river observes that the
	(b) 280	angle of elevation of the top of a tree on the opposite bank of the river is 60° and when he retires 40 metres away from
	(c) 196	the tree the angle of elevation becomes 30°. The breadth of
	(d) 346	the river is :
8	4. A club consists of members whose ages are in A.P., the	(a) 40 m
	common difference being 3 months if the warmant	(b) 20 m (c) 30 m
	member of the club is hist / years old and the sum of the	(d) 60 m
	ages of all the members is 250 years, then the number of members in the club are:	93. A room has 3 lamps. From a collection of 10 light bulbs of
	(a) 15	which be are not good, a person selects 3 at random and
	(b) 20	puts them in a socket. The probability that he will have
	(c) 25	light, is:
	(d) 30	(a) 5/6
85	. A metal cube of edge 12 cm is melted and formed into	(b) 1/2 (c) 1/6
	three smaller cubes. If the edges of two smaller cubes are 6	(d) None of these
	cm and 8 cm, find the edge of the third smaller cube.	94. Out of 13 applicants for a job, there are 5 women and 8
	(a) 10 cm	men. It is desired to select 2 persons for the job. The
	(b) 14 cm (c) 12 cm	probability that atleast one of the selected person will be a
	(d) 16 cm	woman is :
86	A well has to be dug out that is to be 22.5m deep and of	(a) 25/39
	diameter 7 m. Find the cost of plastering the inner curved	(b) 5/13 (c) 14/39
	surface at Rs. 3 per sq. metre.	(d) 10/13
	(a) Rs. 1465	95. The probability that a certain electronic component fails
	(b) Rs. 1485	when first used is 0-10. If it does not fail immediately, the
	(c) Rs. 1475	probability that it lasts for one year is 0.99. The probability
	(d) Rs. 1495	that a new component will last for one year is:
87.	Water flows out through a circular pipe whose internal	(a) 0·891 (b) 0·92
	diameter is 2 cm, at the rate of 6 metres per second into a cylindrical tank, the radius of whose base is 60 cm. By how	(c) 0.692
	much will the level of water rise in 30 minutes?	(d) None of these
	(a) 2 m (b) 4m	96. A circular grassy plot of land, 42 m in diameter, has a path
	(c) 3 m (d) 5 m	3.5 m wide running around it on the outside. The cost of
88.	A ladder 15 m long reaches a window which is 9 m above	gravelling the path at Rs. 4 per square metre is:
	the ground on one side of a street. Keeping its foot at the	(a) Rs. 1002
	same point, the ladder is turned to the other side of the	(b) Rs. 3002 (c) Rs. 2002
	street to reach a window 12 m high. Find the width of the street.	(d) Rs. 1802
	(a) 19 m (b) 21 m	97. A plot of land in the form of a rectangle has a dimension
	(c) 20 m (d) 22 m	240 m × 180 m. A drainlet 10 m wide is dug all around it
89.	The horizontal distance between two trees of different	(on the outside) and the earth dug out is evenly spread
	heights is 60 m. The angle of depression of the top of the	over the plot, increasing its surface level by 25 cm. The depth of the drainlet is:
	first tree when seen from the top of the second tree is 45°.	(a) 1·225 m
	If the height of the second tree is 80 m, find the height of	(b) 1·229 m
	the first tree. (a) 20 m (b) 22 m	(c) 1·227 m
	(c) 18 m (d) 16 m	(d) 1·223 m
90	The number of ways in which a committee of 3 ladies and 4	98. A rectangular tank is 225 m by 162 m at the base. With what speed must water flow into it through an aperture 60
,	gentleman can be appointed from a meeting consisting of	cm by 45 cm that the level may be raised 20 cm in 5 hours?
	8 ladies and 7 gentlemen, if Mrs. X refuses to serve in a	(a) 5000 m/hr
	committee if Mr. Y is its member, is:	(b) 5400 m/hr
	(a) 1960 (b) 3240 (d) None of those	(c) 5200 m/hr
	(c) 1540 (d) None of these	(c) 5200 m/hr (d) 5600 m/hr

9	cm. If the thickness	n long has exterior diameter equal to 25 s of the pipe is 1 cm, the whole surface of		large as the first, 4 defective. If the con-	npany received a to	al of 100 det	fectivo
	the pipe is:			ball bearings, how	many ball bearing	were there	in the
	(a) 3068 cm ²			first shipment?			
	(b) 3268 cm ²			(a) 990			
	(c) 3168 cm ²			(b) 2,000			
	(d) 3368 cm ²			(c) 1,000			
100	100. At a point on level ground, the angel of elevation of a			(d) 3,000			
vertical tower is found to be such that its tangent is			108. In a certain laboratory, chemicals are identified by a color				
	On walking 192 metres towards the tower, the tangent of the angle of elevation is 3/4. The height of the tower is: (a) 160 m				ese are 20 different		
					er a single color or		
				pair. If the order of	colors in the pairs	loesn't matte	er, what
	(b) 180 m				imber of different co		
	(c) 170 m			of colors?	ith either a single c	olor or a unic	que pair
	(d) 190 m			(a) 5	(b) 7		
101		f a vertical tower observes a car moving					
		coming directly towards it. If it takes 12		(c) 6	(d) 20		
		tle of depression to change from 30° to	109.	Population of a dis			
		this, will the car reach the tower?			the population is l		
	(a) 14 minutes 23 s				umber of women, w	ho are litera	ite, is?
	(b) 16 minutes 23 s			(a) 32,200			
	(c) 15 minutes 23 s			(b) 31,800			
	(d) 17 minutes 23 s			(c) 66,400		V	
102.		ons of Chemistry in Class X having 40,		(d) 48,000			
		dents. The mean marks obtained in	110	. A train covers 180	0 km distance in 4	hours Anot	ther train
		50, 60, 55 and 45 respectively for the 4	110		distance in 1 ho		
		ne the overall average of marks per			distance covered b		
	student.			hour?	distance covered t	y these trui	no m one
	(a) 50·25			(a) 45 km			
	(b) 52·25			(b) 9 km			
	(c) 51·25			(c) 40 km			
(d) 53-25				(d) None of these			
103.	33. The average score of boys in an examination of a school is 71 and that of girls is 73. The average score of the school in that examination is 71.8. Find the ratio of the number of			111. Speed of a speed-boat when moving in the direction perpendicular to the direction of the current is 16 km/hr, speed of the current is 3 km per hour. So the speed of the			
	boys to the num examination.	ber of girls that appeared in the		boat against the c	current will be (in l	m/hr):	
	(a) 2:2			(a) 22			
	(b) 4:2			(b) 9·5			
	(c) 3:2			(c) 10			100
				(d) None of these	:		
	(d) 1 : 2		112	. R and S start wa		h other at 1	10 A.M. at
104. Company C sells a line of 25 products with an average retail price of Rs. 1,200. If none of these products sells for less than Rs. 420 and exactly 10 of the products sell for less than Rs. 1,000, what is the greatest possible selling price of			112	speeds of 3 km p They were initia meet?	er hour and 4 km lly 17·5 km apart.	per hour res	spectively.
	the most expensive			(a) 2:30 P.M.			
	(a) Rs. 2,600	•		(b) 11:30 PM.			
	(b) Rs. 7,800			(c) 1:30 P.M.			
	(c) Rs. 3,900			(d) 12:30 P.M.	1 1 to annual	se sain 25	06 Ruthe
	(d) Rs. 11,800			3. A shopkeeper m	iarks up his good	to gain 33	-Gronthe
105				allows 10% disc	ount for cash payr	nent. His pr	OH OH the
105.	5. A sink contains exactly 12 litres of water. If water is			cash transaction	therefore, in perce	ntage, is:	
		ik until it holds exactly 6 litres of water		(a) $13\frac{1}{2}$	(b) 25		
		ity drained away, how many litres of		(a) 13 - 2			
	water were drained				(d) 31	1	
	(a) 2	(b) 6		(c) $21\frac{1}{2}$	(a) 31	2	
	(c) 3	(d) 9		4. A can do 50% m	are work as R can	do in the sa	me time. B
106.	6. A chemist has 10 litres of a solution that is 10 per cent nitric acid by volume. He wants to dilute the solution to 4 per cent strength by adding water. How many litres of			alone can do a p of B, can finish th	iece of work in 20 he same work in ho	nours. A, wi	in the new
	water must be add?			(a) 12			
	(a) 15	(b) 20		(b) 8			
				(c) 13 ¹			
	(c) 18	(d) 25		(c) $13\frac{1}{3}$			
107	A company received	two shipments of ball bearings. In the per cent of the ball bearings were		(d) $5\frac{1}{2}$			