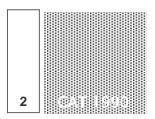


SECTION – I

DIRECTIONS for questions 1 to 5: Each of the following questions has one or more blank space	es indicating
where a word / words has been left out. Following each sentence, four words or sets of words le	ettered a to d
have been given. You have to select the appropriate word or set of words to make the se meaningful.	entence most

 protoplasm, micros cytoplasm, minute 	copic	2. globules, fat4. chromosomes, hereditary				
Question ID	Area Code	Course/s Code	Level of Difficulty- E/M/D			
rs/ Changes & Remarks stion/Options/Explanation						
The insurance claim v	vas by tl	ne relevant documents				
1. sustained	2. backed out	3. backed up	4. Proved			
 Question ID	Area Code	Course/s Code	Level of Difficulty- E/M/D			
rs/ Changes & Remarks stion/Options/Explanation						
I should not have the man to whom I wa		uch a strain	especially when I had not stud			
1. daring, commandin 3. ventured, perempto		2. try, bold4. emboldened, reck	kless			
Question ID	Area Code	Course/s Code	Level of Difficulty- E/M/D			
rs/ Changes & Remarks stion/Options/Explanation						
High prices are often	the of	of goods				
1. accompaniment, dearth 2. concomitant, scarcity						





3. cause, destitution 4. result, glut

5. The recent disturbances in the country will _____ and peace will be restored.

1. blow past 2. blow over 3. pass through 4. come to pass

DIRECTIONS *for questions 6 to 10:* Choose from among the given alternatives the one which will be a suitable substitute for the underlined expression in each of the following.

6. The marriage of the princess with the commoner caused a furore among the royalty.

1. misalliance

2. misalliance

3. elopement

4. romance

7. The victim's involuntary responses to stimulus proved that he was still living.

1. reactions

2. reflexes

3. feedback

4. communication

8. The art and science of good eating and drinking is now a lost art.

1. Gastronomy

2. Osteopathy

3. Gluttony

4. Cooking

9. The thrilling narrative caused the hair on the skin to stand erect.

1. tension

2. horrification

3. terror

4. horror

10. The body of Macedonian infantry drawn up in close order was like a formidable castle of steel.

1. phalanx

2. phagocyte

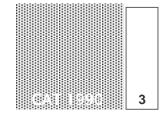
3. phenomenon

4. phaeton

DIRECTIONS for questions 11 to 20: Choose the grammatically correct sentence from among the four options given for each question.

- 11. 1. The Excel Company has greatly enhanced it's advertising expense.
 - 2. The Excel Company has greatly increased its advertising expense.
 - 3. The Excel Company has greatly enhanced its advertising expense.
 - 4. The Excel Company has greatly increased it's advertising expense.
- 1. Today we love, what tomorrow we hate; today we seek, what tomorrow we shun, today we desire, what tomorrow we fear.
 - 2. Today, we love what tomorrow we hate, today, we seek what tomorrow we shun, today, we desire what tomorrow we fear.
 - 3. Today we love what tomorrow we hate, today we seek what tomorrow we shun, today we desire what tomorrow we fear.
 - 4. Today we love what tomorrow we hate; today we seek what tomorrow we shun; today we desire what tomorrow we fear.
- 13. 1. There's Mr. Som, whom they say is the best singer in the country.
 - 2. There's Mr. Som, who they say is the best singer in the country.
 - 3. There is Mr. Som, whom they say is the best singer in the country.
 - 4. There is Mr. Som who, they say is the best singer in the country.
- 14. 1. I am not one of those who believe everything they hear.
 - 2. I am not one of those who believes everything I hear.
 - 3. I am not one of those who believes everything he hears.
 - 4. I am not one of those who believes in everything one hears.

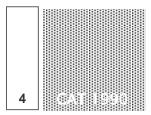




- 15. 1. The Board of Directors will hold its next meeting in July.
 - 2. The Board of Directors will hold it's next meeting in July.
 - 3. The Board of Directors shall hold the next meeting in July.
 - 4. The Board of Directors shall hold it's next meeting in July.
- 16. 1. The state of his affairs were such as to cause anxiety to his creditors.
 - 2. The state of his affairs was such as to cause anxiety to his creditors.
 - 3. The state of his affairs are such as to cause anxiety to his creditors.
 - 4. The state of his affairs are such as to cause anxiety to his creditors.
- 17. 1. Cannot one do what one likes with one's own?
 - 2. Cannot one do that one likes to do with his own?
 - 3. Cannot one do that one likes with his own?
 - 4. Cannot one do what he likes with his own?
- **18.** 1. Each of the students has done well.
 - 2. Each of the student has done well.
 - 3. Each of the students have done well.
 - 4. Each of the student have done well.
- 19. 1. None of us were comfortable with what was happening.
 - 2. None of us was comfortable with what was happening.
 - 3. None among us were comfortable with what was happening.
 - 4. None amongst us were comfortable with what was happening.
- **20.** 1. Neither the king nor his ministers desires war.
 - 2. Neither king nor his ministers desires war.
 - 3. Neither the king nor his ministers desire war.
 - 4. Neither king nor his ministers desire war.

DIRECTIONS *for questions 21 to 30: In each of the questions below, there are four statements which express the same idea. Choose the alternative that is most concise and clear.*

- 21. 1. The history of Modern Industry's performance, which is marginal at best, may be an indication of solvency problems that will occur in the future.
 - 2. Modern industry's history of marginal performance may indicate solvency problems in the future.
 - 3. The history of marginal performance of Modern Industry may indicate future solvency problems.
 - 4. Modern Industry's history of performance, which is marginal at best, may indicate future solvency problems.
- 22. 1. On the whole food front one may say that we can enjoy festivals in the consciousness that though some things are dear, the basic foods are better in quality and still low in price.
 - 2. We can enjoy festivals knowing that though some things are clear, the basic foods are of better quality and still low in price.
 - 3. Although we know that some things are dear, we can still enjoy festivals because the basic foods are better in quality and low in price.
 - 4. On the whole food front, although some things are dear, we can still enjoy festivals as the basic foods are of better quality and quite cheap.
- 23. 1. The dull are likely to have a limited conceptual grasp.
 - 2. It is unlikely that the dull would have adequate conceptual grasp.
 - 3. The dull are not likely to grasp concepts easily.





- 4. It is unlikely that the dull can grasp concepts easily.
- 24. 1. I request you to kindly deliver to me a tin of milk powder.
 - 2. Could you please send me a tin of milk powder?
 - 3. May I request you to please send me a tin of milk powder?
 - 4. Can I have milk powder sent to me please?
- 25. 1. There is no question of it not being possible to freeze you to death and wake you up as and when you want.
 - 2. There is no question of it not being possible to freeze you to death and wake you up whenever you want.
 - 3. Undoubtedly, it should be possible to freeze you to death and wake you up whenever you want.
 - 4. Undoubtedly, it should be possible to freeze you to death and wake you up when you want.
- 26. 1. Finally, there will be unexpected, unanticipated implicational consequences of this development concerning human life.
 - 2. This development concerning human life will finally have unanticipated consequences.
 - 3. This development concerning human life will finally have unexpected and unanticipated implications.
 - 4. This development concerning human life will finally have unexpected implications.
- 27. 1. His definition of reality has first to be made coincident with the point of view adopted by the author whom he is discussing.
 - 2. His definition of reality has first to be made coincident with the point of view adopted by the author who he is discussing.
 - 3. His definition has to first agree with the point of view adopted by the author he is discussing.
 - 4. His definition of reality has first to coincide with the point of view adopted by the author he is discussing.
- 28. 1. I should be very much obliged if you could be kind enough to send me the required material.
 - 2. I should be much obliged if you could send me the required material.
 - 3. I should be very much obliged if you could kindly send me the required material.
 - 4. I should be grateful and very much obliged if you could kindly send me the required material.
- 29. 1. I am sorry, a prior engagement prevents me from joining you at dinner on Monday.
 - 2. I regret to say that I am very sorry that a previous engagement will prevent me from joining you at dinner on Monday.
 - 3. I regret to inform you that because of a previous engagement I will be prevented from joining you at dinner on Monday.
 - 4. I am sorry to say that I am unable to join you at dinner on Monday because of a prior engagement.
- **30.** 1. Looking back, our inability to confirm speakers gave us the maximum headaches.
 - 2. Looking at it with hindsight our inability to confirm speakers gave us the maximum headaches.
 - 3. On hindsight we find that our inability to confirm speakers gave us the maximum headaches.
 - 4. On hindsight, our inability to confirm speakers gave us the maximum headaches.

DIRECTIONS for questions 31 to 35: Each of the following questions has a pair of CAPITALIZED words followed by four pairs of words. Choose the pair of words which best expresses the relationship similar to that expressed in the capitalized pair.

31. CAR : ROAD

1. electricity: cable 2. ink: pencil 3. bomb: missile 4. fly: bird

32. FORESIGHT : FARSIGHTEDNESS



CAT 996 5

1. long: lengthy 2. further: farther 3. short: dwarf 4. thinker: visionary

33. FLEET: NAVY

1. chapter: book 2. seats: auditorium 3. letter: word 4. drop: ocean

34. FEATHER: WING

1. down: goose 2. cotton: mattress 3. subheading: heading 4. brick: wall

35. SUGAR : TEA

1. paper : editor 2. weapon : murderer 3. button : buttonhole 4. umbrella : rain

DIRECTIONS *for questions 36 to 40:* Each pair of CAPITALIZED words given below is followed by four pairs of words. Choose the pair which does not exhibit the relationship similar to that expressed in the capitalized pair.

36. RENT : LEASE

1. interest: borrow 2. salary: employ 3. price: buy 4. tax: govern

37. TEMPERATURE : HEAT

1. votes: popularity 2. IQ: intelligence 3. ohms: resistance 4. speed: distance

38. PROGRESS : PROGRESSIVE

terror: terrorist
 sympathy: sympathizer
 revolution: revolutionary
 reform: reformist

39. STUBBORN : ADAPTABLE

1. stupid : bright 2. moral : amoral 3. inherent : extraneous 4. friend : enemy

40. CLIPS : PAPER

1. thread: beads 2. cement: bricks 3. ribbon: hair 4. bag: vegetables

DIRECTIONS *for questions 41 to 50:* Each of these questions contains six statements followed by four sets of combinations of three. Choose the set in which the statements are most logically related.

41. A. Some of my closest friends disapprove of me.

- B. Some of my closest friends are aardvarks.
- C. All of my closest friends disapprove of me.
- D. All who disapprove of me are aardvarks.
- E. Some who disapprove of me are aardvarks.
- F. Some of my closest friends are no aardvarks.

1. BCD 2. ABD 3. BCE 4. ABE

42. A. All those who achieve great ends are happy.

43.

44.

45.

46.

47.

E. Some aquatic animals are mammals.

2. ABC

F. Some mammals are whales.

1. ADF

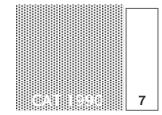


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B. All young people are C. All young people act D. No young people act E. No young people are F. Some young people are	hieve great ends. hieve great ends. c happy.		
1. ADE	2. ABF	3. ACB	4. ADF
B. Some learned men aC. Some learned men aD. Some learned men aE. Some learned men a	re not persons who acknown re persons who are very	owledge merit in a rival. candid.	
1. ABE	2. ACF	3. ADE	4. BAF
A. All roses are fragran B. All roses are majesti C. All roses are plants. D. All roses need air. E. All plants need air. F. All plants need water	c.		
1. CED	2. ACB	3. BDC	4. CFE
C. Some men are men of D. Some men and wom E. All men of artistic go	omen of scientific ability	y. ic ability.	
1. ACD	2. ACE	3. DEF	4. ABC
A. No fishes breathe the B. All fishes have scale C. Some fishes breed up D. All whales breathe to E. No whales are fishes F. All whales are mammar.	s. p stream. hrough lungs.		
1. ABC	2. BCD	3. ADE	4. DEF
A. Some mammals are B. All whales are mammals. All whales are aquat D. All whales are carni	mals. ic animals.		

3. AEF

4. BCE

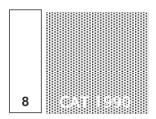




- **48.** A. First-year students of this college like to enter for the prize.
 - B. All students of this college rank as University students.
 - C. First-year students of this college are entitled to enter for the prize.
 - D. Some who rank as University students are First-year students.
 - E. All University students are eligible to enter for the prize.
 - F. All those who like to are entitled to enter for the prize.
 - 1. AEF
- 2. ABC
- 3. BEC
- 4. CDF

- **49.** A. Some beliefs are uncertain.
 - B. Nothing uncertain is worth dying for.
 - C. Some belief is worth dying for.
 - D. All beliefs are uncertain.
 - E. Some beliefs are certain.
 - F. No belief is worth dying for.
 - 1. ABF
- 2. BCD
- 3. BEF
- 4. BDF

- **50.** A. No lunatics are fit to serve on a jury.
 - B. Everyone who is sane can do logic.
 - C. None of your sons can do logic.
 - D. Some who can do logic are fit to serve on a jury.
 - E. All who can do logic are fit to serve on a jury.
 - F. Everyone who is sane is fit to serve on a jury.
 - 1. BDE
- 2. BEF
- 3. BDF
- 4. ADE





SECTION - II

DIRECTIONS for questions 51 to 58: Each of the following questions is followed by two statements. MARK

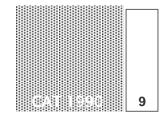
- 1. if the question can be answered with the help of statement I alone
- 2. if the question can be answered with the help of statement II alone
- 3. if both, statement I and statement II are needed to answer the question, and
- 4. if the statement cannot be answered even with the help of both the statements.
- 51. If R is an integer between 1 & 9, P R = 2370, what is the value of R?
 - I. P is divisible by 4.
 - II. P is divisible by 9.
- **52.** A man distributed 43 chocolates to his children. How many of his children are more than five years old?
 - I. A child older than five years gets 5 chocolates.
 - II. A child 5 years or younger in age gets 6 chocolates.
- **53.** Ramu went by car from Calcutta to Trivandrum via Madras, without any stoppages. The average speeds for the entire journey was 40 kmph. What was the average speed from Madras to Trivandrum?
 - I. The distance from Madras to Trivandrum is 0.30 times the distance from Calcutta to Madras.
 - II. The average speed from Madras to Trivandrum was twice that of the average speed from Calcutta to Madras.
- **54.** x,y, and z are three positive odd integers, Is x + z divisible by 4?

I.
$$y - x = 2$$

II. $z - y = 2$

- **55.** The unit price of product P1 is non-increasing and that of product P2 is decreasing. Which product will be costlier 5 years hence?
 - I. Current unit price of P1 is twice that of P2.
 - II. 5 years ago, unit price of P2 was twice that of P1.
- **56.** X is older than Y, Z is younger than W and V is older than Y. Is Z younger than X?
 - I. W may not be older than V
 - II. W is not older than V
- 57. How long did Mr. X take to cover 5000 km. journey with 10 stopovers?
 - I. The ith stopover lasted i² minutes.
 - II. The average speed between any two stopovers was 66 kmph.
- **58.** $[(x^{-1} y^{-1})/(x^{-2} y^{-2})] > 1$?
 - I. x + y > 0
 - II. x and y are positive integers and each is greater than 2.





DIRECTIONS for questions 59 to 100: Choose the best answer choice from those provided.

In a game played by two people there were initially N match sticks kept on the table. A move in the game consists of a player removing either one or two matchsticks from the table. The one who takes the last matchstick loses. Players make moves alternately. The player who will make the first move is A. The other player is B.

playe	r is B.	·		
59.	The smallest value	e of N (greater than 5) that	at ensures a win for B is	
	1. 7	2. 6	3. 10	4. 8
60.	The largest of N (less than 50) that ensures	a win for B is	
	1. 46	2. 47	3.48	4. 49
61.	bird keeper, know	ying only that $p = 7$, was a	able to figure out withou	o of them escaped to freedom. If the ut looking into the cage that at least esent a possible (x, y) pair?
	1. (10, 8)	2. (7, 2)	3. (25, 6)	4. (12, 4)
62.	The remainder wh	nen 2^{60} is divided by 5 equ	uals	
	1. 0	2. 1	3. 2	4. None of these
63.	Mr. X enters a prepeatedly. Then	ositive integer Y in an e	lectronic calculator and	d then goes on pressing the square
	 The display doe The display bee The display bee May not be true 	comes closer to 0	on the choice of Y	
64.	What is the sum of	of the following series: 1/($(1 \times 2) + 1/(2 \times 3) + 1/(2 \times 3)$	(3 × 4) ++ 1/(100 × 101)
	1. 99/100	2. 1/100	3. 100/101	4. 101/102
65.	The value of (1 –	$(x) + 1/(1+x) + 2/(1+x^2)$	$1 + 4/(1 - x^6)$	
	1. $8/(1-x^8)$	2. $4x/(1+x^2)$	$3.4/(1-x^6)$	$4. \ 4/(1 + x^4)$
66.	Let a, b be any po	sitive integers and $x = 0$	or 1, then	
	1. $a^{x}b^{(1-x)} = xa + (1-3)a^{x}b^{(1-x)} = a^{(1-x)}bx$	x)b	2. a ^x b ^(1-x) =(1-x)a+ 4. None of the abo	xb ove is necessarily true.
67.				lled up either with a white ball or a

67. There are six boxes numbered 1, 2, 3, 4, 5, 6. Each box is to be filled up either with a white ball or a black ball in such a manner that at least one box contains a black ball and all the boxes containing black balls are consecutively numbered. The total number of ways in which this can be done equals.

1. 15

2.21

3.63

4.64

76.

1. 80, 20



68.	Consider the following 1. Put x = 1, y = 2 3. Replace y by y +1 5. Go to step 2 Then the final value of		 2. Replace x by xy 4. If y = 5 then go to step 6 otherwise go to step 5. 6. Stop 				
	1. 1	2. 24	3. 120	4. 720			
69.	manufactured by M1 ar	nd M2 respectively. 3% of the products of	of the products of M1 ar	nd M3, 40% and 30% were e defective, 1% of products of e. What is the percentage of			
	1. 3%	2. 5%	3. 2.5%	4. 4%			
70.	From any two numbers than 0.5. Then x*x <y*< th=""><th></th><th>= x + 0.5y - xy. Suppos</th><th>e that both x and y are greater</th></y*<>		= x + 0.5y - xy. Suppos	e that both x and y are greater			
	1. $1 > x > y$	2. $x > 1 > y$	3. $1 > y > x$	4. $y > 1 > x$			
71.	Consider a function f(k			function satisfies the condition			
	Then f(k) is given by	$f(1) + f(2) + \dots = p/(p-1)$	1). Where p is fraction is	e. 0 < p < 1.			
	1. p(-p) ^{k-1}	2. p(1-p) ^{k-1}	3. $\{p(1-p)\}^{k-1}$	4. None of these			
72.	in the first round, the v is played between two	vinners of the first round players. If after any rour at round and plays the n	are paired up in second and, there is odd number of	mat. The players are paired up round, and so on till the final of players, one player is given thers. Find the total number of			
	1. 115	2. 53	3. 232	4. 116			
73.	If n is any positive inte	ger, then n ³ - n is divisibl	le				
	1. Always by 12	2. Never by 12	3. Always by 6	4. Never by 6			
74.	The value of $(1-d^3)/(1-c^3)$	d) is					
	1. > 1 if d > -1	2. > 3 if d > 1	3. > 2 if 0 < d < 0.5	4. < 2 if d < -2			
75.		s. He retains 10% of the		s money he can buy either 50 he buys 20 mangoes, then the			
	1. 25	2. 18	3. 20	4. None of these			
Rs.12 l sell a c	DIRECTIONS for questions 76 to 78: A dealer deals only in colour TVs and VCRs. He wants to spend up to Rs.12 lakhs to buy 100 pieces. He can purchase a colour TV at Rs.10,000 and a VCR at Rs.15,000. He can sell a colour TV at Rs.12,000 and a VCR at Rs.17,500. His objective is to maximize profits. Assume that he can sell all the items that he stocks						

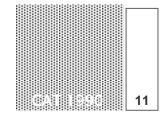
For the maximum profit, the number of colour TVs and VCRs that he should respectively stock are

3. 60, 40

4. None of these

2. 20, 80





77.	If the dealer	would hav	e managed	to get a	n additional	space to	stock 2	20 more	items,	then	for
	maximizing p	profit, the ra	tio of numbe	er of VCR	s and number	er of TVs	that he sl	hould sto	ck is		

1.7:3

2.0

3.1:2

4. None of these

78. The maximum profit, in rupees lakh, the dealer can earn from his original stock if he can sell a colour TV at Rs. 12200 and VCR at Rs.18300 is

1.2.64

2. 2.49

3. 2.72

4. 2.87

DIRECTIONS for questions 79 to 81: Ghosh Babu has a certain amount of property consisting of cash, gold coins and silver bars. The cost of a gold coin is Rs. 4000 and the cost of a silver bar is Rs. 1000. Ghosh Babu distributed his property among his daughters equally. He gave to his eldest daughter gold coins worth 20% of the total property and Rs. 25000 in cash. The second daughter was given silver bars worth 20% of the remaining property and Rs. 50000 cash. He then gave each of the third and fourth daughters equal number of gold coins and silver bars both together accounting each for 20% of the property remaining after the previous distribution and Rs. 25000 more than what the second daughter had received in cash.

79. The amount of property in gold and silver possessed by Ghosh Babu is

1. 2,25,000

2. 2,75,000

3. Rs. 4,25,000

4. None of these

80. Total property of Ghosh Babu (in Rs.lakh) is

1.5.0

2.7.5

3. 10.0

4. 12.5

81. If Ghosh Babu had equal number of gold and silver bars, the number of silver bars he has is

1.90

2.60

3.75

4.55

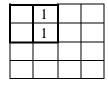
DIRECTIONS for questions 82 to 84: The following questions relate to a game to be played by you and your friend. The game consists of a 4 x 4 board (see below) where each cell contains a positive integer. You and your friend make moves alternately. A move by any of the players consists of splitting the current board configuration into two equal halves and retaining one of them. In your moves you are allowed to split the board only vertically and to decide to retain either the left or the right half. Your friend, in his/her moves, can split the board only horizontally and can retain either the lower or the upper half. After two moves by each player a single cell will remain which can no longer be split and the number in that cell will be treated as the gain (in rupees) of the person who has started the game. A sample game is shown below.

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

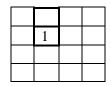
Initial Board After your move (Retain upper)

2	1	
5	1	

After your friends move (Retain upper)



After your move (Retain right)



After your friends move (Retain lower)

So your gain is Re.1. With the same initial board configuration as above and assuming that you have to make the first move, answer the following questions.

82. If you choose (retain right) (retain left) in your turns, the best move sequence for your friend to reduce your gain to a minimum will be

1. (retain upper)(retain lower)

2. (retain lower) (retain upper)

3. (retain upper) (retain upper)

4. (retain lower) (retain lower)



2. CLOSE: Position the book at page No. 0

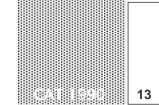
reached, stop at M.



83.		our moves intelligently t	hen at the end of the gar	ne your gain will be		
	1. Rs. 4	2. Rs. 3	3. Rs. 2	4. None of these		
84.	If your first move is (a gain of no less than	retain right), then whatev	er moves your friend ma	ay select you can always force a		
	1. Rs. 3	2. Rs. 6	3. Rs. 4	4. None of these		
85.	The roots of the equat	ion $ax^2 + 3x + 6 = 0$ will	be reciprocal to each oth	ner if the value of a is		
	1. 3	2. 4	3. 5	4. 6		
86.	4/5 of its original sp developed the same p	eed As a result, the car problem after traveling 3	r reached point B 45 r 30 km from A, then it	in the engine and speed became minutes late. If the engine had would have reached B only 36 stance between the points A and		
	1. 25, 130	2. 30, 150	3. 20, 90	4. None of these		
87.	together and after co		Rs.94.60 in all. When	ectively. They started the work they divide the money among		
	1. 44, 33, 17.60	2. 43, 27.20, 24.40	3. 45, 30, 19.60	4. 42, 28, 24.60		
88.	They take 5 seconds	to cross each other. If the faster moving train wo	ne two trains had travele	ad 50 km per hour respectively. ed in the same direction, then a other train in 18 seconds. What		
	1. 112.78	2. 97.78, 55	3. 102.78, 50	4. 102.78, 55		
89.		numbers is partitioned The sum of the elements		$S_2 = (2,3), S_3 = \{4,5,6), S_4 =$		
	1. 61250	2. 65525	3. 42455	4. 62525		
90.	A square is drawn by joining the midpoints of the sides of a given square. A third square is drawn inside the second square in the same way and this process is continued indefinitely. If a side of the first square is 8 cm, the sum of the areas of all the squares such formed (in sq.cm.) is					
	1. 128	2. 120	3. 96	4. None of these		
DIRECTIONS for questions 91 to 94: The pages of a book are numbered $0, 1, 2 \dots$ upto $M, M > 0$. There are four categories of instructions that direct a person in positioning the book at a page. The instruction types and their meanings are:						
1 OPF	EN : Position the book a	t page No. 1				

3. FORWARD, n :From the current page move forward by n pages; if, in this process, page number M is

92.



4. BACKWARD, n: From the current page, move backward by n pages; if in this process, page number 0 is reached, stop at page number 0.

In each of the following questions, you will find a sequence of instructions formed from the above categories. In each case, let n₁ be the page number before the instructions are executed and n₂ be the page number at which the book is positioned after the instructions are executed.

91. FORWARD, 25; BACKWARD, 10, which of the following statements is true?

1.
$$n_1 = n_2$$
 if $M = 10$ and $n_1 = 0$

2.
$$M = 20$$
 provided $n_1 > 0$

3. $n_1 > 30$ provided M = 9004. $n_1 = 37$ provided M = 25

1.
$$n_1 = n_2$$
 provided $n_1 \ge 5$
3. $n_2 = 5$ provided $M > 0$

instructions?

2.
$$n_1 = n_2$$
 provided $n_1 > 0$
4. $n_1 > n_2$ provided $M > 0$

93. FORWARD, 10; FORWARD, 10. Which of the following statements about the above instructions is true?

BACKWARD, 5; FORWARD, 5. Which of the following statements is true about the above set of

1.
$$n_2 - n_1 = 20$$
 only if $n_1 = 0$
3. $n_2 - n_1 = 10$ if $M = 21$ and $n_2 = 10$

2.
$$n_2 - n_1 = 20$$
 if $M > 20$ and $n_1 = 1$

3.
$$n_2 - n_1 = 10$$
 if $M = 21$ and $n_1 = 0$

4.
$$n_2 > n_1$$
 if $M > 0$

94. FORWARD, 5; BACKWARD, 4. Which of the following statements about the above instructions is true?

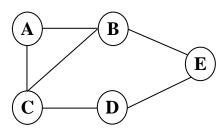
1.
$$n_2 = n_1 + 4$$
 Provided $1 < n_1 < 7$

2.
$$n_2 = n_1$$
 provided $M < 6$

3.
$$n_2 = n_1 + 1$$
 provided M - $n_1 > 5$

4.
$$n_2 - n_1 < 0$$
 provided $M > 0$

DIRECTIONS for questions 95 to 96: There are 5 cities, A, B, C, D and E connected by 7 roads as shown in the figure below:



Design a route such that you start from any city of your choice and walk on each of the 7 roads once and only once, not necessarily returning to the city from which you started.

- 95. For a route that satisfies the above restrictions, which of the following statements is true?
 - 1. There is no route that satisfies the above restriction.
 - 2. A route can either start at C or end at C, but not both.
 - 3. D can be only an intermediate city in the route.
 - 4. The route has to necessarily end at E.
- 96. How many different starting cities are possible such that the above restriction is satisfied?
 - 1. one
- 2. zero
- 3. three
- 4. two

97. If xy + yz + zx = 0, then $(x + y + z)^2$ equals

1.
$$(x + y)^2 + xz$$

2.
$$(x + z)^2 + xy$$

3.
$$x^2 + y^2 + z^2$$

$$4.\ 2(xy + yz + xz)$$

98. If equal numbers of people are born on each day, find the approximate percentage of the people whose birthday will fall on 29th February.(if we are to consider people born in 20th century and assuming no deaths).

1.0.374

2. 0.5732

3. 0.0664

4. None of these

99. I brought 30 books on Mathematics, Physics, and Chemistry, priced at Rs.17, Rs.19, and Rs.23 per book respectively, for distribution among poor students of Standard X of a school. The physics books were more in number than the Mathematics books but less than the Chemistry books, the difference being more than one. The total cost amounted to Rs.620. How many books on Mathematics, Physics, and Chemistry could have been bought respectively?

1. 5, 8, 17

2. 5, 12, 13

3. 5, 10, 15

4. 5, 6, 19

100. The last time Rahul bought Diwali cards, he found that the four types of cards that he liked were priced Rs.2.00, Rs.3.50, Rs.4.50 and Rs.5.00 each. As Rahul wanted 30 cards, he took five each of two kinds and ten each of the other two, putting down the exact number of 10 rupees notes on the counter payment. How many notes did Rahul give?

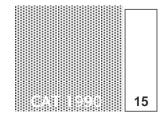
1.8

2.9

3.10

4. 11

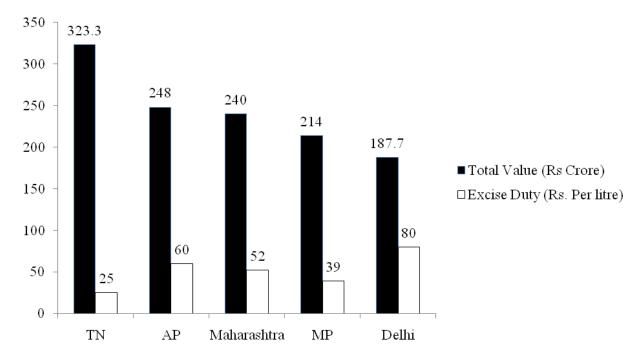




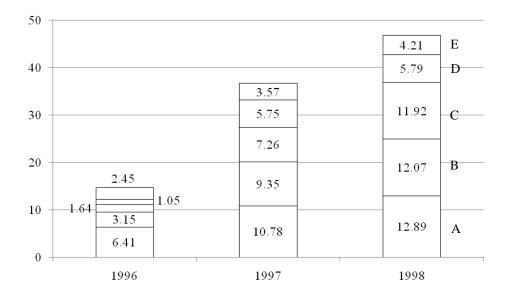
SECTION - III

DIRECTIONS for questions 101 to 125: In these questions, you are provided data in the form of charts and/or tables. Study the data carefully and answer the questions following them.

101-104: The following graph shows the value of liquor supplied by the 5 states in 1996 and the excise duty rates in each state.

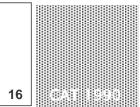


Amount of liquor supplied in Tamil Nadu Distilleries A, B, C, D, E (from bottom to top) in lakh litres.



101. What is the lowest percentage difference in the excise duty rates for any two states?

- 1. 12
- 2.15
- 3.20
- 4. Cannot be determined.



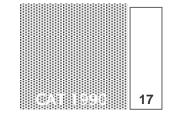


				<u>Bulls Eye</u>
16	677			www.hitbullseye.com
102.	Which of the five sta	ates manufactured liquor	at the lowest cost?	
	 Tamil Nadu Delhi The states which I Cannot be determined 	has the lowest value for ((wholesale price-Exci	se duty) per litre
103.	the following choice		ascending order of th	e value of the liquor), then which of the excise duty paid by them for the se 5 distilleries).
	1. ECABD	2. ADEBC	3. DCEBA	4. Cannot be determined.
104.	in the given period h		of growth as the one	growth in amount of liquor supplied which grew fastest, what would that
	1. 13	2. 15.11	3. 130	4. Cannot be determined.
105.		g statements, only one is have the ball.	-	ach girl has just one object in hand. o are false.
	1. Saira	2. Mumtaz	3. Zeenat	4. Cannot be determined
106.		holidays. Their earnings	0	grove to earn some pocket money to the number of mangoes plucked
	_	-		r got the same amount at Albert and avid and Jerome taken together.
	Who earned the mos	st pocket money? Who pl	lucked the least numb	er of mangoes?
	1. David, Jerome	2. David, Albert	3. Jerome, Tomm	y 4. Jerome, Albert
107.	back by a dyestuff simplified in assess Subject Matter, Mac	firm. Mill technicians ing the essays, which h	were eligible to ent nad to be done unde elopments. Marks wer	Nylon Dying, organized some time ter the competition. My work was r five heads-Language, Coherence, re to be given out of a maximum of
				10 in Machinery. Bhanu's total was many marks as Divya. None got 20

Who was the winner?

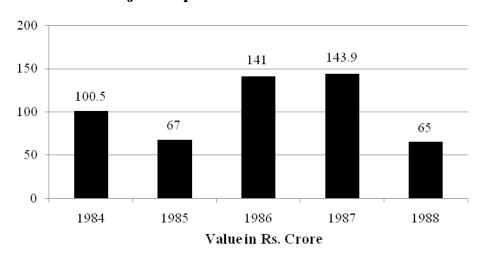
1. Divya 2. Charulata 3. Ela 4. Bhanu





DIRECTIONS for questions 108 to 110: Refer to the following Bar-chart and answer the questions that follow:

Project Exports: Contracts Secured



- **108.** What is the average value of the contract secured during the years shown in the diagram?
 - 1. Rs. 103.48 crore
- 2. Rs. 105 crore
- 3. Rs. 100 crore
- 4. Rs.125.2 crore
- 109. Compared to the performance in 1985 (i.e. taking it as the base), what can you say about the performances in the years '84, '85, '86, '87, '88 respectively, in percentage terms?
 - 1. 150, 100, 211, 216, 97

2. 100, 67, 141,144, 65

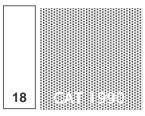
3. 150, 100, 200, 215, 100

- 4. 120, 100, 220, 230, 68
- **110.** Which is the year in which the highest percentage decline is seen in the value of contract secured compared to the preceding year?
 - 1. 1985
- 2. 1988
- 3. 1984
- 4. 1986

DIRECTIONS for questions 111 to 116: The table below shows the estimated cost (in Rs. Lakh) of a project of laying a railway line between two places.

	1988	1989	1990	1991
1. Surveying	41.5	7.5	2.2	0.5
2. Cement	1	95.0	80.0	75.0
3. Steel	-	70.0	45.0	60.0
4. Bricks	-	15.0	12.0	16.0
5. Other building material	-	25.0	18.0	21.0
6. Labour	2.1	25.0	20.0	18.0
7. Administration	7.5	15.0	15.0	14.0
8. Contingencies	1.0	15.0	4.2	5.0
Total	52.1	267.5	196.4	209.5

- 111. The total expenditure is required to be kept within Rs. 700 lake by cutting the expenditure on administration equally in all the years. What will be the percentage cut for 1989?
 - 1.22.6
- 2.32.6
- 3.42.5
- 4.52.6





112. If the length of line to be laid each year is in proportion to the estimated cost for material and labour, what fraction of the total length is proposed to be completed by the third year?

1.0.9

2.0.7

3. 0.6

4. 0.3

113. What is the approximate ratio of the total cost of materials for all the years bear to the total labour cost?

1.4:1

2.8:1

3. 12:1

4. 16:1

114. If the cost of materials rises by 5% each year from 1990 onwards, by how much will the estimated cost rise?

1. Rs. 11.4 lakh

2. Rs. 16.4 lakh

3. Rs.21.4 lakh

4. Rs.26.4 lakh

115. It is found at the end of 1990, that the entire amount estimated for the project has been spent. If for 1991, the actual amount spent was equal to that which was estimated, by what percent (approximately) has the actual expenditure exceeded the estimated expenditure?

1.39

2. 29

3. 19

4. 9

116. After preparing the estimate, the provision for contingencies is felt inadequate and is therefore doubled. By what percent does the total estimate increase?

1.3.47

2. 2.45

3. 1.50

4. 3.62

DIRECTIONS *for questions 117 to 121:* The first table gives the number of saris (of all the eight colours) stocked in six regional showrooms. The second gives the number of saris (of all the eight colours) sold in these six regional showrooms. The third table gives the percentage of saris sold to saris stocked for each colour in each region. The fourth table gives the percentage of saris of a specific colour sold within that region. The fifth table gives the percentage of saris of a specific colour sold across all the regions.

Study the tables and for each of the following questions, choose the best alternative.

Table 1

	THE I								
Region	Blue	Green	Magenta	Brown	Orange	Red	Violet	Yellow	Total
1	267	585	244	318	132	173	195	83	1994
2	341	480	99	199	234	119	200	109	1781
3	279	496	107	126	100	82	172	106	1468
4	198	307	62	221	65	96	124	91	1164
5	194	338	120	113	82	60	125	124	1156
6	158	261	133	104	71	158	128	82	1095
Total	1437	2454	765	1081	684	688	944	595	8658

Table 2

	1 able 2										
Region	Blue	Green	Magenta	Brown	Orange	Red	Violet	Yellow	Total		
1	122	164	71	165	40	84	97	45	788		
2	124	200	37	78	67	47	73	50	676		
3	21	57	7	24	9	14	20	11	163		
4	79	85	22	164	18	46	43	54	511		
5	29	36	22	17	9	18	19	16	166		
6	1	3	2	2	1	3	2	4	18		
Total	376	545	161	450	144	212	254	180	2322		



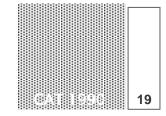


Table 3

Region	Blue	Green	Magenta	Brown	Orange	Red	Violet	Yellow	All
1	46	28	29	52	30	49	50	54	40
2	36	42	37	39	29	39	37	46	38
3	8	11	7	19	9	17	12	10	11
4	40	28	35	74	28	48	35	59	44
5	15	11	18	15	11	30	15	13	14
6	1	1	2	2	1	2	2	5	2
All	26	22	21	42	21	31	27	30	

Table 4

Region	Blue	Green	Magenta	Brown	Orange	Red	Violet	Yellow	Total
1	15	21	9	22	4	11	12	6	100
2	18	30	5	12	10	7	11	7	100
3	13	35	4	15	6	9	12	7	100
4	15	17	4	32	4	9	8	11	100
5	17	22	13	10	5	11	11	10	100
6	6	14	11	11	6	17	11	22	100

Table 5

Region	Blue	Green	Magenta	Brown	Orange	Red	Violet	Yellow
1	32	30	44	37	28	40	38	25
2	33	37	23	17	47	22	29	28
3	6	10	4	5	6	7	8	6
4	21	16	14	36	13	22	17	30
5	8	7	14	4	6	8	7	9
6	0	1	1	0	1	1	1	2
Total	100	100	100	100	100	100	100	100

	6	0	1	1	0	1	1	1	2
	Total	100	100	100	100	100	100	100	100
117.	Which re	egion-colo	ur combina	tion account	ts for the hi	ghest percenta	age of sale	s to stock?	
	1. (1, Bro	own)	2. (2,	Yellow)	3. (4	, Brown)	4. (5, Red)	
118.	Which co	olour is th	e most popu	ılar in regio	n1?				
	1. Blue		2. Bro	own	3. G	reen	4. V	/iolet	
119.	Which re	egion sold	the maxim	um percenta	ge of mage	nta saris out o	of the total	sales of mag	genta saris?
	1. 3		2. 4		3. 2		4. 1		
120.	Out of its	s total sale	es, which re	gion sold the	e minimum	percentage of	f green sar	is?	
	1. 1		2. 6		3. 4		4. 2		

3. 1

4.4

In which region is the maximum percentage of blue saris sold?

2. 3

121.

1. 2



DIRECTIONS for questions 122 to 125: The table below gives the achievements of Agricultural Development Programmes from 1983 - 84 to 1988 - 89. Study the following table and for each of the following questions, choose the best alternative.

Programme	83 - 84	84 - 85	85 - 86	86 - 87	87 - 88	88 - 89

Irrigation (Cumulative in Million Hectares)

		(
Major & Medium	22.05	22.70	23.20	24.00	24.60	25.32
Minor	28.60	32.77	32.77	34.20	34.00	35.14

High vielding varieties (Million Hectares)

	Tight fletding varieties (vinnon fleetares)									
1. Paddy	16.90	18.20	19.70	18.70	21.70	22.80				
2. Wheat	15.90	16.10	16.80	17.80	19.40	19.10				
3. Jowar	3.10	3.50	3.90	4.40	5.30	5.10				
4. Bajra	2.90	3.60	4.60	4.70	5.40	5.20				
5. Maize	1.40	1.60	1.60	1.70	1.90	2.00				

Consumption of Chemical fertilizers (Million tons)

		1		(,	
1. Nitrogen	3.42	3.68	4.07	4.22	5.20	5.49
2. Phosphate	1.11	1.21	1.32	1.44	1.73	1.89
3. Potash	0.59	0.62	0.67	0.73	0.78	0.84

Gross Cropped area (Million hectares)

 Gross Cropped area (vinnon nectares)									
174.8	173.1	177.00	172.6	180.4	187.8				

122. The consumption of chemical fertilizer per hectare of gross cropped area is lowest for the year

$$1.1984 - 85$$

$$2.1985 - 86$$

$$3.1986 - 87$$

$$4.1987 - 88$$

123. In which year does the area cropped under high yielding varieties show a decline for the maximum number of crops?

$$1.1988 - 89$$

$$2.1985 - 86$$

$$3.1986 - 87$$

- 4. None of these
- **124.** How much area, in million hectares, was brought under irrigation during the year 1986-87?

125. It is possible that a part of the minor irrigated area is brought under major and medium areas. In which year has this definitely happened?

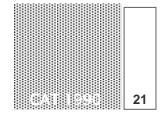
$$1.1984 - 85$$

$$2.1985 - 86$$

$$3.1986 - 87$$

$$4.1987 - 88$$





SECTION - IV

Passage I

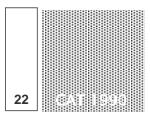
The motive force that has carried the psychoanalytic movement to a voluminous wave of popular attention and created for it considerable following those discontent with traditional methods and attitudes, is the frank direction of the psychological instruments of exploration to the insistent and intimate problems of human relations. However false or however true its conclusions, however weak or strong its arguments, however effective or defective or even pernicious its practice, its mission is broadly humanistic. Psychological enlightenment is presented as a program of salvation. By no other appeal could the service of psychology have become so glorified. The therapeutic promise of psychoanalysis came as the most novel, most ambitious, most releasing of the long procession of curative systems that mark the history of mental healing.

To the contemporary trends in psychology psychoanalysis actually offered a rebuke, a challenge, a supplement, though it appeared to ignore them. With the practical purpose of applied psychology directed to human efficiency it had no direct relation and thus no quarrel. The solution of behaviorism, likewise bidding for popular approval by reducing adjustment to a program of conditioning, it inevitably found alien and irrelevant, as the behaviorist in reciprocity found psychoanalytic doctrine mystical, fantastic, assumptive, remote. Even to the cognate formulations of mental hygiene, as likewise in its contacts with related fields of psychology, psychoanalysis made no conciliatory advances. Towards psychiatry, its nearest of kin, it took an unfriendly position, quite too plainly implying a disdain for an unprogressive relative. These estrangements affected its relations throughout the domain of mind and its ills; but they came to head in the practice.

From the outset in the days of struggle, when it had but a sparse and scattered discipleship, to the present position of prominence, Freudianism went its own way, for the most part neglected by academic psychology. Of dreams, lapses and neuroses, orthodox psychology had little say. The second reason for the impression made by psychoanalysis when once launched against the tide of academic resistance was its recognition of depth psychology, so much closer to human motivation, so much more intimate and direct than the analysis of mental factors.

Most persons in trouble would be grateful for relief without critical examination of the theory behind the practice that helped them. Anyone at all acquainted with the ebb and flow of cures - cures that cure cures that fail - need not be told that the scientific basis of the system is often the least important factor. Many of these systems arise empirically within a practice, which by trial, seems to give results. This is not the case in psychoanalysis. Psychoanalysis belongs to the typical groups of therapies in which practice is entirely a derivative of theory. Here the pertinent psychological principle reads: "Create a belief in the theory, and the fact will create themselves".

- **126.** The distinctive feature of psychoanalysis is that
 - 1. it provided the laymen with a scientific basis to the theories of psychology.
 - 2. it blasted the popular theory that the conscious mind could be aptly linked the tip of an iceberg.
 - 3. it provided effective means for the cure of mental disorders.
 - 4. it rendered existing trends in psychology defunct.
- **127.** The distinction between behaviorism and psychoanalysis that is heightened here is which of the following?
 - 1. Behaviorism is wide in scope; psychoanalysis more restricted.
 - 2. Behaviorism are more tolerant in their outlook; psychoanalysis more dogmatic.
 - 3. Behaviorism traces all action to conditioning by habit; psychoanalysis to the depths of the human mind
 - 4. Behaviorism are more circumspect and deliberate in their propagation of theory; psychoanalysis jump to conclusion impetuously.



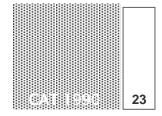


- **128.** The statement which is refuted by the passage is this:
 - 1. The popularity enjoyed by psychoanalysis is partly due to the disenchantment with traditional methods of psychology.
 - 2. Psychoanalysis wooed people dissatisfied with other branches of psychology to swell their ranks.
 - 3. Psychoanalysis were pioneers in the realm of analysis of the subconscious mind.
 - 4. Psychoanalysis alienated allied branches of psychology.
- **129.** Create a belief in theory and
 - 1. belief will be created itself.
- 2. theory will be created itself.
- 3. facts will be created themselves
- 4. All of the above.
- **130.** Psychoanalysis are of the opinion that
 - 1. methods of psychoanalysis must be in keeping with individual needs.
 - 2. inferences can be drawn empirically from repeated experiments with any given theory.
 - 3. theory leads to practice.
 - 4. practice culminates into theory.
- **131.** Freudian psychoanalysis was ignored by academic psychology because of which of the following?
 - 1. Its theories were not substantiated by practical evidence.
 - 2. It probed too deep into the human mind thereby divesting it of its legitimate privacy.
 - 3. It did not have a large following.
 - 4. It was pre-occupied with unfamiliar concepts such as dreams and the subconscious mind.
- **132.** The only statement to receive support from the passage is which of the following?
 - 1. Psychoanalysis concentrated more on the theoretical remedies than their practical implementation.
 - 2. Psychoanalysis broke the shackles of convention in its involvement with humanistic issues.
 - 3. The attitude of psychoanalysis towards allied branches of psychology could at best be described as indifferent.
 - 4. Psychoanalysis dispelled the prevalent notion that dreams were repressed desires.
- 133. The popularity enjoyed by the psychoanalytical movement may be directly attributed to
 - 1. dissatisfaction with existing methods of psychology.
 - 2. its logical, coherent process of ratiocination.
 - 3. its novel unconventionality in both postulate and practice.
 - 4. its concentration upon the humanistic aspect of psychological analysis.

Passage 2

It is undeniable that some very useful analogies can be drawn between the relational systems of computer mechanism and the relational systems of brain mechanism. The comparison does not depend upon any close resemblance between the actual mechanical links which occur in brains and computers; it depends on what the machines do. Further more, brains and computers can both be organized so as to solve problems. The mode of communication is very similar in both the cases, so much so that computers can now be designed to generate artificial human speech and even, by accident, to produce sequences of words which human beings recognize as poetry. The implication is not that machines are gradually assuming human forms, but that there is no sharp break of continuity between what is human, what is mechanical.



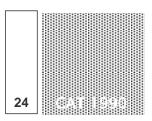


- **134.** From the passage, it is evident that the author thinks
 - 1. computers are now naturally programmed to produce poetry.
 - 2. computers are likely to usurp the place of intellectual superiority accorded to the human brain.
 - 3. the resemblance that the computer bears to the human brain is purely mechanical.
 - 4. the unintentional mixing up of word sequences in the computer can result in poetry.
- 135. Computers have acquired a proven ability of performing many of the functions of the human brain because
 - 1. the brain of modern man is unable to discharge its functions properly on account of over-reliance on machines.
 - 2. the sophisticated computer mechanism is on the verge of outstripping human mental faculties.
 - 3. the process of organizing and communicating are similar in both cases.
 - 4. the mechanics of the human brain have been introduced in the computer.
- **136.** The resemblance between the human brain and the computer is
 - 1. imaginary.
- 2. intellectual.
- 3. mechanical.
- 4. functional.

- **137.** The passage implies that
 - 1. computers are assuming human forms.
 - 2. human are assuming mechanical forms.
 - 3. computers and humans are substitutable.
 - 4. there is continuity between what is human and what is mechanical.
- 138. The author uses the word 'recognize' in relation to computer poetry to convey a
 - 1. sense of sorrow at the reluctant admission of the superiority of machines by mankind.
 - 2. feeling that computers have yet to conquer the emotional heights that man is capable of attaining.
 - 3. feeling of derision for the popular faith in the omnipotence of the computer.
 - 4. feeling of a fatalistic acceptance of the computer's encroachment upon human bastions.
- 139. Points of dissimilarity between the human brain and the computer don't extend to
 - 1. the faculty of composing poetry.
- 2. methods of communication.
- 3. the faculty of composing poetry.
- 4. the faculty of speaking naturally

Passage 3

A distinction should be made between work and occupation. Work implies necessity; it is something that must be done as contributing to the means of life in general and to one's own subsistence in particular. Occupation absorbs time and energy so long as we choose to give them; it demands constant initiative, and it is its own reward. For the average person the element of necessity in work is valuable, for he is saved the mental stress involved in devising outlets for his energy. Work has for him obvious utility, and it bring the satisfaction of tangible rewards. Where as occupation is an end in itself, and we therefore demand that it shall be agreeable, work is usually the means to other ends - ends which present themselves to the mind as sufficiently important to compensate for any disagreeableness in the means. There are forms of work, of course, which since external compulsion is reduced to a minimum, are hardly to be differentiated from occupation. The artist, the imaginative writer, the scientist, the social worker, for instance, find their pleasure in the constant spontaneous exercise o creative energy and the essential reward of their work is in the doing of it. In all work performed by a suitable agent there must be a pleasurable element, and the greater the amount of pleasure that can be associated with work, the better. But for most people the pleasure of occupation needs the addition of the necessity provided in work. It is better for them to follow a path of employment marked out for them than to have to find their own.

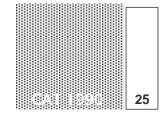




When, therefore, we look ahead to the situation likely to be produced by the continued rapid extension of machine production, we should think not so much about providing occupation for leisure as about limiting the amount of leisure to that which can be profitably used. We shall have to put the emphasis on the work providing rather than the goods - providing aspect of the economic process. In the earlier and more ruthless days of capitalism the duty of the economic system to provide work was overlooked. The purpose of competitive enterprise was to realize a profit. When profit ceased or was curtailed, production also ceased or was curtaile4. Thus the workers, who were regarded as units of labour forming part of the costs of production, were taken on when required and dismissed when not required. They hardly thought of demanding work as a right. And so long as British manufacturers had their eyes mainly on the markets awaiting them abroad, they could conveniently neglect the fact that since workers are also consumers, unemployment at home means loss of trade. Moral considerations did not yet find a substitute in ordinary business prudence. The labour movements arose largely as a revolt against the conception of workers as commodities to be bought and sold without regard to their needs as human beings. In a socialist system it is assumed that they will be treated with genuine consideration, for, the making of profit not being essential, central planning will not only adjust the factors of production to the best advantage but will secure regularity of employment. But has the socialist thought about what he would do if owing to technological advance, the amount of human labour were catastrophically reduced? So far as I know, he has no plan beyond drastically lining the hours of work, and sharing out as much work as there may be. And, of course, he would grant monetary relief to those who were actually unemploye4. But has he considered what would be the moral effect of life imagined as possible in the highly mechanized state of future? Has he thought of the possibility of bands of unemployed and underemployed workers marching on the capital to demand not income (which they will have) but work?

- **140.** Future, according to the passage, may find the workers
 - 1. without money. 2
- 2. without work.
- 3. replacing machines. 4. without leisure.
- **141.** The main defect of socialism at present is that
 - 1. it has not evolved a satisfactory system of making workers co-sharers in prosperity.
 - 2. it has not made work less burdensome for the mass of workers.
 - 3. it has not taken into consideration the possibility of an immense reduction of human labour in the wake of mechanization.
 - 4. it is not concerned with improving and streamlining the method of production.
- **142.** The labour movement was the outcome of
 - 1. an effort to increase productivity.
 - 2. a move to make workers share in the prosperity of the capitalists.
 - 3. a revolt against the conception of workers as commodities.
 - 4. a move to avert mass unemployment because of the mechanization.
- **143.** The chief purpose of competitive enterprise is to
 - 1. create more job opportunities.
- 2. produce as much as possible.
- 3. create more wealth in the country.
- 4. realize the maximum profit.
- 144. In the situation created by the rapid extension of machine production, our object should be to
 - 1. make work as light as possible.
 - 2. provide increased opportunities for interesting occupation.
 - 3. limit the amount of leisure to that which can be profitably used.
 - 4. produce more and more goods.



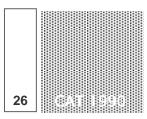


- 145. The activities of the artist, the writer, the scientist etc. may be considered to be occupations because
 - 1. they often does not have any utilitarian value.
 - 2. external compulsion is reduced to a minimum and they are agreeable and require quite a lot of initiative.
 - 3. they occupies time and energy only so long as the workers choose to give them.
 - 4. they care only for the pleasure which brings them without any consideration of reward.
- **146.** Which of the following statements is not true according to the information contained in the passage?
 - 1. Work is something done as contributing to the means of life in general and to one's own subsistence in particular.
 - 2. Occupation is something that requires initiative and can be done at one's will and pleasure and not as a task.
 - 3. Work brings in tangible rewards while occupation is not utilitarian.
 - 4. There is no form of work which shows approximation to occupation.
- **147.** The chief reason for a person taking up an occupation may be stated to be :-
 - 1. a desire to make profit.
 - 2. an irresistible urge to do something uncommon.
 - 3. a wish to do something useful to society.
 - 4. a desire to do something which requires initiative and doing it at his will and pleasure.
- **148.** The distinction between work and occupation is as follows:-
 - 1. Work at all times is unpleasant and occupation is always agreeable.
 - 2. In work there is an element of necessity which is totally wanting in occupation.
 - 3. Work has obvious utility and brings tangible rewards, while occupation is an end in itself.
 - 4. Work and occupation often seem to be so very much alike that no distinction can be made between them.

Passage 4

If the more articulate members of a community formed a coherent and united class with a common interest, democracy would probably replace in to the rule of that intelligent, educated minority; even as it is, the democracies of the modern world are much closer to this fate than they are to the much-canvassed dangers of mob rule. Far from oppressing the cultured minority, or any other minorities, democracy gives more of them more scope to have their way than any other system does. This is the lesson of experience. It might also have been derived from an analysis of the concept of democracy, if the concept had been accurately analyzed.

- **149.** The word articulate here refers to
 - 1. the elite.
 - 2. people who are endowed with a native intelligence.
 - 3. that class which is well educated.
 - 4. people who are endowed with clarity of speech.
- **150.** What emerges as the truth from a reading of the paragraph is that
 - 1. forms of government other than democracy give the mobs great scope for self expression.
 - 2. democracy provides greater scope for mob rule.
 - 3. democracy provides greater scope for the rule of the minority.
 - 4. forms of government other than democracy give the educated minority greater scope for self expression.





- **151.** Our appreciation of the virtues of the democratic system
 - 1. is the result of an illusory concept.
 - 2. is the result of our negative response to other forms of government.
 - 3. is the result of a proven record of the success of democracy.
 - 4. is the result of centuries of accurate research on the theoretical aspects of democracy.
- 152. The wide scope that democracy offers to the minorities can be made known

1. by our common sense.

2. by our political theories.

3. by our native intelligence.

4. by proper analysis.

- **153.** The author seems to be
 - 1. a supporter of mob rule.

- 2. a supporter of democracy
- 3. against intelligence in minorities.
- 4. analysing the flaws of democracy.
- **154.** The institution of democracy, in modern times
 - 1. is on the brink of extinction.
 - 2. has become vulnerable to the dangers of proletariat rule.
 - 3. should be prepared for the inevitability of mob rule.
 - 4. has become prone to the rule of particular class of people.

Passage 5

A difficult readjustment in the scientist's conception of duty is imperatively necessary. As Lord Adrain said in his address to the British Association, "unless we are ready to give up some of our old loyalties, we may be forced into a fight which might end the human race". This matter of loyalty is the crux. Hitherto, in the East and in the West alike, most scientists, like most other people, have felt that loyalty to their own state is paramount. They have no longer a right to feel this. Loyalty to the human race must take its place. Everyone in the West will at once admit this as regards Soviet scientists. We are shocked that Kapitza who was Rutherford's favourite pupil, was willing when the Soviet government refused him permission to return to Cambridge, to place his scientific skill at the disposal of those who wished to spread communism by means of H-bombs. We do not so readily apprehend a similar failure of duty on our own side. I do not wish to be thought to suggest treachery, since that is only a transference of loyalty to another national state. I am suggesting a very different thing; that scientists the world over should join in enlightening mankind as to the perils of a great war and in devising methods for its prevention. I urge with all the emphasis at my disposal that this is the duty of scientists in East and West alike. It is difficult duty, and one likely to entail penalties for those who perform it. Bu after all it is the labours of scientists which have caused the danger and on this account, if on no other, scientists must do everything in their power to save mankind from the madness which they have made possible. Science from the dawn of history, and probably longer, has been intimately associated with war. I imagine that when our ancestors descended from the trees they were victorious over the arboreal conservatives because flints were sharper than coconuts. To come to more recent times, Archimedes was respected for his scientific defense of Syracuse against the Romans; Leonardo obtained employment under the Duke of Milan because of his skill in fortification, though he did mention in a postscript that he could also paint a bit. Galileo similarly derived an income from the Grant Duke of Tuscany because of his skill in calculating the trajectories of projectiles. In the French Revolution those scientists who were not guillotined devoted themselves to making new explosives. There is therefore no departure from tradition in the present day scientist's manufacture of A-bombs and H-bomb. All that is new is the extent of their destructive skill.





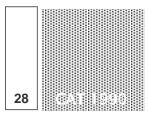
I do not think that men of science can cease to regard the disinterested pursuit of knowledge as their primary duty. It is true that new knowledge and new skills are sometimes harmful in their effects, but scientists cannot profitably take account of this fact since the effects are impossible to foresee. We cannot blame Columbus because the discovery of the Western Hemisphere spread throughout the Eastern Hemisphere an appallingly devastating plague. Nor can we blame James Watt for the Dust Bowl although if there had been no steam engines and no railways the West would not have been so carelessly or so quickly cultivate4. To see that knowledge is wisely used in primarily the duty of statesmen, not of science; but it is part of the duty of men of science to see that important knowledge is widely disseminated and is not falsified in the interests of this or that propaganda.

Scientific knowledge has its dangers; but so has every great thing. And over and beyond the dangers with which it threatens the present, it opens up, as nothing else can, the vision of a possible happy world, a world without poverty, without war, with little illness. And what is perhaps more than all, when science has mastered the forces which mould human character, it will be able to produce populations in which few suffer from destructive fierceness and in which the great majority regard other people, not as competitors, to be feared, but as helpers in a common task. Science has only recently begun to apply itself to human beings except in their purely physical aspect. Such science as exists in psychology and anthropology has hardly begun to affect political behaviour or private ethics. The minds of men remain attuned to a world that is fast disappearing. The changes in our physical environment require, if they are to bring well being, correlative changes in our beliefs and habits. If we cannot effect these changes, we shall suffer the fate of the dinosaurs, who could not live on dry land.

I think it is the duty of science - I do not say of every individual man of science - to study the means by which we can adapt ourselves to the new world. There are certain things that the world quite obviously needs; tentativeness, as opposed to dogmatism in our beliefs: an expectation of co-operation, rather than competition, in social relations, a lessening of envy and collective hatre4. These are things which education could produce without much difficulty. They are not things adequately south in the education of the present day.

It is progress in the human sciences that we must look to undo the evils which have resulted from a knowledge of the physical world hastily and superficially acquired by populations unconscious of the changes in themselves that the new knowledge has made imperative. The road to a happier world than any known in the past lies open before us if atavistic destructive passion can be kept in leash while the necessary adaptations are made. Fears are inevitable in our time, but hopes are equally rational and far more likely to bear good fruit. We must learn to think rather less of the dangers to be avoided than of the good that will be within our grasp if we believe in it and let it dominate our thoughts. Science, whatever unpleasant consequences it may have by the way, is in its very nature a liberator, a liberator of bondage to physical nature and, in time to come a liberator from the weight of destructive passion. We are on the threshold of utter disaster or unprecedented glorious achievement. No previous age has been fraught with problems so momentous and it is to science that we must look for happy issue.

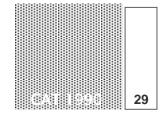
- **155.** The duty of science, according to the author is :-
 - 1. to realize the vision of a happy new world
 - 2. to pursue knowledge for its own sake
 - 3. to see that only such discoveries as conducive to the progress of humanity should be made
 - 4. to study the means by which we can adapt ourselves to the new world
- **156.** Archimedes, Leonardo and Galileo have been mentioned to substantiate the statement that
 - 1. science has always been intimately associated with war
 - 2. from ancient times science has played a leading part in the life of man
 - 3. all learning has flourished only under the patronage of royalty and eminent personages
 - 4. in the past pursuit of knowledge was done for its own sake





- **157.** The ground on which the author suggests that all scientists should join in educating mankind regarding the perils of a great war is that
 - 1. scientists being among the most learned among people, should take the lead in this process of education.
 - 2. it is the work of scientists which has led to this perilous situation and so they should do something to undo the mischief.
 - 3. science has always been associated with war and in the fitness of things, scientists should take the lead in trying to end it.
 - 4. all others like politicians and soldiers have vested interest in perpetuating war and by elimination, scientists alone may be trusted to work for its abolition.
- 158. In modern times, the crux of the matter as far as scientists are concerned is that
 - 1. their loyalty to the state should be declared in no uncertain terms.
 - 2. a readjustment in the scientist's conception of duty is imperatively necessary.
 - 3. they should not object to stringent control by the state over their activities.
 - 4. they should assert their independence and refuse to subject themselves to any kind of control.
- **159.** The instance of Kaptiza cited by the author goes to prove that
 - 1. every scientist has his price.
 - 2. in Soviet Russia, communists do not tolerate independent scientists.
 - 3. scientists, whether in the East or West, have hitherto felt that loyalty to their own state is paramount.
 - 4. scientists in the West have a higher sense of responsibility than their counterparts in the East.
- **160.** Which among the following statements is not true according to the information provided in the passage?
 - 1. If there is no readjustment in the scientist's conception of duty, the extinction of the human race by war is a distinct possibility.
 - 2. Up till now, scientists all over the world have felt that loyalty to their own state is paramount
 - 3. It is the labours of scientists which have caused the danger of annihilation of mankind.
 - 4. The tradition up to now has been that scientists have been respected for their pursuit of knowledge and not for their part in devising potent weapons of destruction
- **161.** The duty of the scientist, according to the passage, is
 - 1. to further the interests of his state with as much devotion as possible
 - 2. to pursue knowledge regardless of the consequences of their discoveries and inventions
 - 3. to see that important knowledge is widely disseminated and is not falsified in the interests of propaganda
 - 4. to refuse to serve national interests
- 162. The evils which have resulted from knowledge of the physical world can only be overcome by
 - 1. a more intensive pursuit of scientific knowledge
 - 2. making scientists more responsible to society
 - 3. adequate progress in the human sciences
 - 4. enlightening the general public about the evils





- **163.** Science may be considered a liberator in the sense that :-
 - 1. ultimately it may bring the nations of the world together
 - 2. it may make man's life a great deal happier than what it is now
 - 3. it may free man from bondage to physical nature and the weight of destructive passions
 - 4. it may end the tyranny of age old beliefs and superstitions.

Passage 6

We have planned development with a view to raising standard of living of our teeming millions. Hence our economic development is inspired by social justice.

- **164.** Which of the following will weaken the argument?
 - 1. Without economic development standard of living cannot be raised.
 - 2. Social justice implies economic prosperity.
 - 3. Development cannot be planned.
 - 4. None of these.
- **165.** The argument is based on which of the following assumptions?
 - I. Social justice is our aim and economic development is the means.
 - II. There is overpopulation in India.
 - III. Economic development will lead to social justice.
 - 1. Only I
- 2. Both I and II
- 3. Both I and III
- 4. Both II and III

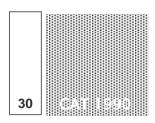
- **166.** Which of the following will strengthen the argument?
 - 1. Social justice can be done by raising the standard of living
 - 2. Economic planning is necessary for every state.
 - 3. For economic development production should be increased.
 - 4. None of these.

Passage 7

We will have to take more interest in hydro-electric projects. As the prices of oil have increased, it has become vital that such renewable sources of energy are tapped.

- **167.** The assumption/assumptions of the argument is /are which of the following?
 - I. Hydro electric power is a renewable source of energy.
 - II. Hydro electric power is comparatively cheaper.
 - 1. Only I
- 2. only II
- 3. Both I and II
- 4. Neither I nor II

- **168.** Which of the following will weaken the argument?
 - 1. Generation of hydroelectric power is more costly than oil.
 - 2. OPEC increased oil prices.
 - 3. Without energy we cannot manage.
 - 4. None of these.





Passage 8

There can be no civilization without music, dance or art, for one is not fully, vibrantly alive without them.

- **169.** The assumption/assumptions of the argument is /are which of the following?
 - I. Civilization and art are closely linked up.
 - II. If people are not full of life there can be no civilization.
 - 1. Only I
- 2. Only II
- 3. Both I and II
- 4. Neither I nor II.

- **170.** Which of the following would weaken the argument?
 - 1. Music is the life of man.

- 2. Living persons like music.
- 3. Art has no relation with civilization.
- 4. None of these.
- **171.** Which of the following would strengthen the argument?
 - 1. Music, dance and art are human activities.
 - 2. Only the vibrantly alive can contribute to civilization.
 - 3. Music injects new life in man.
 - 4. None of these.

Passage 9

It is sometimes mooted that there can be democracy in a two party system. That would be correct if politics were a game like cricket or football; but politics is not sports.

- **172.** Which of the following would strengthen the argument?
 - 1. Two party system functions well
 - 2. Politics is a dirty game.
 - 3. Two political parties limit the choice of the voters.
 - 4. None of these.
- **173.** Which of the following would weaken the argument?
 - 1. The game of politics is played like any other game, for example, football.
 - 2. Politics is not a sport.
 - 3. Political parties struggle for power.
 - 4. None of these.
- **174.** The assumption/assumptions of the argument is/are which of the following?
 - I. Politics is not a game.
 - II. Two party system is ideal for democracy.
 - III. Cricket is played by two teams.
 - 1. Only I
- 2. Only II
- 3. Only III
- 4. I, II, III