ICET - 2005 PA

(BASED ON STUDENTS MEMORY) [Max. Marks : 200] Time: 2 Hours 7. What is the cost of 4 tables and 6 chairs? () **SECTION - A** I) One table and one chair cost Rs. 250 ANALYTICAL ABILITY II) Two tables and three chairs cost Rs. 800 Questions: 75 [Marks: 75] What is the length of the train? D DATA SUFFICIENCY : 1) It crosses a pole in 8 seconds II) It crosses a bridge of length 100m in 12 Note: In questions numbered I to 20, a question is followed by data in the form of two statements labelled Does a divide b, where a, b and c are positive as I and II. You must decide whether the data given in the statements are sufficient to answer the questions. integers? Using the data make an appropriate choice from (1) to II) c is a prime a divides bc (4) as per the following guidelines: What is the value of 35n-3, where n is a positive a) Mark choice (1) If the statement I alone is integer? sufficient to answer the question: I) $3^n = 243$ II) $3^7 = 2187$ b) Mark choice (2) If the statement II alone is What is the number of odd positive integers sufficient to answer the question: less than x? c) Mark choice (3) If both the statements I and II II) Their sum is 1000 x > 200 are sufficient to answer the question but neither 12. What is the total salary of A, B and C? () statement alone is not sufficient: I) A and B have equal salaries each of which is d) Mark choice (4) If both the statements I and II twice the salary of C together are not sufficient to answer the question 11) The salary of C is Rs. 4,000 lessthan that of B and additional data is required. 1. What will be the age of x after 7 years from 13. If a, b, c are integers, is a + b + c even. () I) a - b + c is even II) a, b, c is even I) X is 21 years younger than his father () 14. x is a positive integer. Is x divisible by 36?() II) His father was 40 years old five years ago I) The digit in the units place of x is 2 and the 2. What is the value of the non-negative integerx? digit in the tens place is odd 2^x is odd II) 3x is odd II) The sum of all digits in x is divisible by 9 3. What is the area of the circle? What is the value of the expression I) The circle passes through (0, 0) and (0, 2) 4a2b --II) The circle is fully inscribed in a square of side 8 1) a = 211) $b^2 = 1$ 4. At what speed must the train x be travelling The area of a rectangle is 12 sq. meters. What when it is overtaking the train y? is its perimeter? I) The length of the train x is 200 meters I) The square of the diagonal of the rectangle is II) The train y is travelling at a speed of 60km/hr half of the sum of the squares of the sides 5. 5 men can complete a piece of work in 10 days. II) The length of a side of the rectangle is 4 meters Some boys have joined the work 2 days later. 17. What is the value of $x^2 + y^2$? In how many more days will the job be I) $(x-8)^2 + (y+6)^2 = 0$ completed? 11) (x + 7) + (y - 4) = 0I) One man can do as much as 2 boys 18. Is an Assistant's salary more than that of a 11) The boys who have joined can do the entire manager? work in 20 days I) A Doctor's salary is 40% higher than that of A and B are two positive real numbers. Which

()

an Assistant

of a manager

II) The Doctor's salary is Rs. 159 higher than that

of them is greater than the other?

1) 3A-2B+C=0 II) A+B=C

	1) 49 2) 59 3) 61 4) 72			of different mo	dels A, B, C, D, E man in the years 1996 to	ufactu	red
30.	13, 29,, 125, 253				stions 46 to 50. table gives the numb	er of c	ars
	1) 64 2) 81 3) 36 4) 68				e following table car	efully (and
49.	09:25::49:				TA ANALYSIS		
20	3) 275 4) 255			3) 48	4) 78		
	1) 235 2) 245		45.	1) 96	2) 64	()
28.	165, 195,, 285, 345	(')		3) 894	4) 876		_
	3) $17\frac{1}{6}$ 4) 20	· .	44.	1) 697	2) 957	()
	$3.17\frac{1}{2}$			3) Fat	, 4) Pot		
	1) $18\frac{2}{3}$ 2) $18\frac{2}{7}$		43.	1) Bat	2) Eat	()
		.		3) Sky	4) Star		
27.	$11\frac{1}{9}$, $12\frac{1}{2}$, $14\frac{2}{7}$, $16\frac{2}{3}$,	()	42.	1) Planet	2) Satellite	. ()
				3) GJL	4) NRT		_
	3) 124 4) 163		41.	1) BFH	· 2) MQS	()
-0.	1) 125 2) 216	· ' '].		3) GHRS	4) PQAB		_
26.	3) 23 4) 17 8:27:::343	()	40.	1) DELM	2) BDIJ	. (,
	1) 31 2) 27 3) 23 4) 17		40	3) 131	4) 625		_
25.	7:13::21:	()	39.	1) 169	2) 961	(,
	3) 69 4) 64		39.			-	_
	1) 70 2) 59		56.	3) 567	4) 789		,
24.	9, 19, 40,, 146	()	38.	1) 345	2) 143	(<u> </u>
	3) EVRU 4) EVSU			3) $\frac{3}{7}$	4) $\frac{2}{5}$		
۵.	1) EXUV 2) EVFU	()		3	2		
23	3) 7 4) 8 AZBY, CXDW,, GTHS	()	37.	1) $\frac{15}{19}$	2) $\frac{11}{13}$	()
22.	1, 2, 3, 5,, 10, 15, 30 1) 6 2) 11	()	_				
	3) 1010 4) 1111		50.	3) 217	4) 343	, , ,	,
	1) 0001 2) 0111			1) 65	2) 126	ng out	• .
21.		()	Note		to 45 pick the odd the	ing out	_
	breaking the pattern.			3) H8R	4) H9S		
	options to complete the sequence	without		1) K7P	2) L8P	,	ं ।
	question has a blank space. This has t by the correct answer from the fo	o be tilled	35.	D4V, F6T,,		. (<u></u>
	follow a definite pattern is give	en. Each		3) PZM	4) PYN		
	to 35 a sequence of numbers or le	tters that	34.	GHD, JEG, MI 1) QZM	2) PYM	()
	Note: In each of the questions num		34	3) 185	4) 170	· ,	_
	(A) SEQUENCE AND SERIES			1) 154	2) 145		-
	II) PROBLEM SOLVING		33.	82:122::		, , ()
	II) The boy swims in the same direction as			3) LJB	4) LJC		_
	 The river's current flows at three miles 	per hour.		1) LIC	2) MJC	15.8	
20	What is his speed relative to shore in a r	river? ()	32.	CAT, FDW, IG	Z, •	()
-	I) $m^2 = 81$ II) $m^2 = 36$ A boy can swim two miles per hour in	****		3) 478	4) 368		
	n?	()		1) 387	2) 378		
). m and n are positive integers. Is m gro	eater than	31.	583:283::488		୍ ଅଞ୍ଚ) [

- T2000										
Type		T					52.	_	which represents the p	-
Year	A	В	C	D	E	Total	1		honest nor truthfu	
1996	18	23	21	12	40	114	1	U	d hard working, is de	
1997	20	18	24	14	35	111.		1) A	2) C	()
1998	18	21	20	18	42	119		3) D	4) B	
1999	22	26	19	21	44	132	53.		ossessing all the four q	ualities are
2000	25	30	22	25	48	150	1	represented 1	-	()
2001	28	34	26	30	52	170		1) E	2) F	
	hat typ ere fro				ntage of	fincreases	-	3) I	4) H	
	re iro	M 195				()	54.		eople who are not pos hree qualities are rep	
1) B 3) E				() D () A					•	resented by
	909 1	which			ore or	onstitute	ŀ.	1) K	2) H	()
annr	yyy, i ximat	elv 20	ı typ 1% of 1	the tot	al numb	er of cars	I	3) G	4) L	
	iced in					()	55.		which represents the	
1) E			2) B	٠.	,	1		nt, honest and truth	tul but not
3) C			4) D			1		g is denoted by	_ ()
48. In the	years	1996	and 20	000 pu	t togeth	er, which		1) F	2) E	
type o	f cars	const	titute :	appro	ximatel	y 20% of	_ ا	3) H	4) I	-
the to	tal nui	mber	of car	rs pro	duced i	n the two			D DECODING PRO	
years	•		٠.						ANK is written as	
1) E 3) B			,	C		()	1		written as EQHFOI	
		4-		D					ding and answer the o	uestions 56
total n	roduc	mate tion c	percei	ntage (oi incre	ase in the		to 65.	New York Control	
the ye			n cars		e year 2		56.	The code for		()
1) 40%			2)	45%		, ()		1) QHOG	2) QHOH	4.
3) 50%			,	55%				3) QHMF	4) PHOH	
50. In whi	ch yea	r the			increas	e of total	- 57,	The code for	FROG is	(
numbe	r of ca	ars m	anufa	cture	is mo	re? ()		1) EQPH	2) GSPH	
1) 1998	3			1999		, ,		3) EQNF	4) GSNF	
3) 2000)		4)	2001			58.			
Note:	Belo	w is	given	a fig	ure w	ith four	30.			
interse	cting c	ircles	i, each	repre	senting	a group		I) YDMJUI	2) ADMJUI	
of pers	ons ha	iving	the qu	uality	writter	1 against		3) YFMJUI	4) ADMJUG	ì
it. Stu	dy the	e figu	ire ca	refui	ly and	answer	59.	The code for	PARADE is	· (,,,,
questio	ns 51	to 55.						1) OZQZEF	2) OZPBEG	
Hard					I	ntelligent		3) OZQBEF	4) OZQBFE	,
Working	_ /		×_	\	-	_	60.	The code for		(
	Y	<u>~</u> /	в \	c \				1) QJOD	2) OHOD	•
	V	F	ΧV	V			1		• •	
		• X	£X °	ンハ				3) OHQF	4) QJQF	
	7	Γι	K/	.)		1	61.		is coded as BATS?	. (
		زب	X	_/\				1) CBTR	2) CZSR	1.1.
ıthful -						_		3) CBST	4) CBSR	
						lonest	62.	Which word	is coded as COURSE	22 (
1. The reg	ion w	hich :	repres	ents -	ennla -	who are		1) DPVPRD	2) DPUPRD	1 15
HOL HODE	est Dat	poss	ess all	other	three ^	wao are ualities,	÷			
is denot	ed by			4	7×1014	uanties,	-62	3) DPVQRD	4) DPVORD	
1) B	367	100	2) F	7	3.4	()	63.		is coded as DEMAN	Frank (mass)
3) D	€c 3	.3	4) N		Same 5.			1) EFNBMC	2) EFNZMC	2 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	14	24	3.63	1. 1	an a rai			3) DENZMC	4) EFNZLC	3 1
			THE RESERVE							311

65. (D) D 66.	Which word is coded as NUMBER? () 1) OVNBES 2) OVOADQ 3) OVNZDQ 4) OVNADQ Which word is coded as RATE? () 1) SBUF 2) SBSD 3) SBRD 4) SZSD ATE, TIME ARRANGEMENT PROBLEMS In a row of six persons D and C are immediate neighbours of E. B is a neighbour of A only. A is the fourth from F. Who are on the two end points? 1) F, B 2) F, C () 3) B, D 4) C, A Sekhar was A years old P years ago. How old	towards his right and goes one kilometer. If he is North-West from his house, then in which direction did he go in the beginning? () 1) East 2) West 3) South 4) North 74. A clock is set right at 5 a.m. The clock loses 16 min. in 24 hours. What will be the true time when the clock indicates 10 p.m. on the fourth day? 1) 10: 30 pm 2) 11 pm () 3) 11: 30 pm 4) 10: 45 pm 75. On July 2, 1985, it was Wednesday. The day of the week on July 2, 1984 was () 1) Monday 2) Tuesday 3) Wednesday 4) Saturday
٠,٠	was he T years ago?	SECTION - B
	1) $A - P + T$ 2) $P - A + T$	MATHEMATICAL ABILITY
	3) $A + P - T$ 4) $A - P - T$	Questions: 75 [Marks: 75]
68.	$\frac{2}{3}$ of the members of a committee are women,	I) ARITHMETICAL ABILITY
	male members of the committee are	76. A and B can do a work individually in 12 and 8 days respectively. If C also joins them, the
	married. If there are 9 unmarried male	work can be completed in 4 days. The number
	members in the committee, how many members are there in the committee? ()	of days required for C alone to do the work is
	1) 32 2) 36	1) 20 2) 22 3) 24 4) 25 (
	3) 28 4) 42	77. A sum of money is sufficient to pay A's wages for 21 days are B's wages for 28 days. The
69.	While climbing a 40 feet tall pole, a monkey	number of days for which the money is
	ascends 4 feet in a single jump, but slips down	sufficient to pay the wages of both A and B
	2 feet immediately. How many jumps does it	are ()
	require to reach the top of the pole? ()	1) 12 2) 15
	1) 10 2) 21 3) 20 4) 19	3) 11 4) 14
70.	3) 20 4) 19 If $\mathbf{a} * \mathbf{b} = (\mathbf{a} + \mathbf{b} - 5)^2$ and $\mathbf{a} \Delta \mathbf{b} = \frac{\mathbf{a} \mathbf{b}}{4}$, then (3 * 4) $\Delta (4 * 5) = ?$	78. A wire of length 132 cm is bent to form a rectangle whose sides are in the ratio 7:4. The area (in square cms) of the rectangle is () 1) 4032 2) 4230
	1) 64 2) 0	3) 1008 4) 3420
	3) 16 . 4) 32	79. The number of iron rods each of length 14
71.	How many Re. 1 coins of the same diameter can be placed around a similar Re.1 coin	meters and diameter 2 cm that can be made out of 0.88 cubic meters of iron, is ()
	touching each other? ()	1) 140 2) 200
	1) 4 2) 5 3) 7 4) 6	3) 280 4) 320
	Five books are lying in a pile. E is lying on A and C is lying under B. A is lying above B and D is lying under C. Which book is lying at the bottom? () 1) A 2) C 3) D 4) B	80. The area of trapezium is $\frac{1}{2}(a^2-b^2)$ sq.units where a and b are the lengths of the parallel sides. Then, the distance between the parallel sides is (in units).
73.	A starts from his home and goes two	1) 5 2) 2a
	kilometers straight. Then he turns towards his right and goes one kilometer. He turns again	3) a + b 4) a - b

1	l. The ratio of th	e area of a squar	re of side a to	90.	One train is tra	velling at 90 kmph	and the
	the area of an e	equilateral triang	le of side a is		of their speeds i	rs per second. Then,	()
	1) 4 : √3	2) 2 : √3	()		1) 2 : 5	2) 3:2	` '
		4) √3 : 4	I		3) 4:3	4) 5 : 3	1
	3) √3`:2						
82		when expressed	in the base 5	91.	If $x = \frac{5 - \sqrt{21}}{1}$	then $x^2 + \frac{1}{x^2} =$	()
	system is	2) 243	` '	,	2	x 2	` '
	1) 432	4) 231	.		1) 25	2) 23	
_	3) 234 The g.c.d. of the				25	4) $\frac{23}{9}$	11
83.	25 32 76 114 n	$= 2^3 \cdot 3^4 \cdot 5^6 \cdot 11$	133 is ()		3) $\frac{25}{2}$	4) ${2}$. ,
	1) 972	2) 279		92.	If the digit 1 is p	laced after a two-dig	it number
	• •	4) 792		,		t is t and units digit	
_	3) 297				the new numbe		(,)
84.	If p and q are st	tatements, then,	p ^ (p v q) is		1) 10t + u + 1	2) 100t + 10u	+ 1
	equivalent to		(-)		3) 1000t + 10u -	+1 4)t+u+1	•
	1)~p	2) ~q	^	93.	If a: b = 1:3 a	and $b: c = 2:5$, then	n, a:b:c =
_	3) p	4) q			1) 1:3:5	2) 1:6:15	()
	If in a group of				3) 2:6:15	4) 6:2:15	
	Telugu, n perso		and the second second	94.	If a box conta	ining one dozen m	irrors has
	persons can spe	· ·	9 /		74	ie mirrors broken, w	
	then, the numbe		io can speak		following can	not be the ratio	of broken
	1) m - n + t	2) m - n - t			mirrors to unb	roken mirrors ?	()
					1)3:1	2) 7:5	
_	3) m + n - t	4) n – m + t			3) 2:1	4) 3 : 2	
	A, B, C invest a to						
	a business. A inv	ecte Me Alliacci					
				95.	If $\frac{a}{b+c} = \frac{b}{c+a}$	$=\frac{c}{a+b}$, then each	ch ratio is
	and B invests Rs.	. 10 lacs more tl	an C. Then,	95.		$\frac{c}{a+b}$, then each	ch ratio is
	and B invests Rs. the share of B or	. 10 lacs more ti ut of a total pro	nan C. Then, ofit of Rs. 20	95.	If $\frac{a}{b+c} = \frac{b}{c+a}$ equal to	$\frac{c}{a+b}$, then each	ch ratio is
	and B invests Rs. the share of B or lacs in lacs of Ru	. 10 lacs more that of a total property is	an C. Then,	95.	equal to		ch ratio is
	and B invests Rs. the share of B or lacs in lacs of Ru 1) 4	. 10 lacs more that of a total properties 2) 5	nan C. Then, ofit of Rs. 20	95.		$\frac{c}{a+b}$, then each $2) \frac{2}{3}$	ch ratio is
	and B invests Rs. the share of B or lacs in lacs of Ru 1) 4 3) 6	. 10 lacs more that of a total propess is 2) 5 4) 10	nan C. Then, offit of Rs. 20	95.	equal to $1) \frac{1}{2}$	2) $\frac{2}{3}$	ch ratio is
•	and B invests Rs. the share of B or lacs in lacs of Ru 1) 4 3) 6 Two pipes A and	. 10 lacs more that of a total propess is 2) 5 4) 10 B can fill a tan	han C. Then, ofit of Rs. 20	95.	equal to $1) \frac{1}{2}$	2) $\frac{2}{3}$	ch ratio is
•	and B invests Rs. the share of B or lacs in lacs of Ru 1) 4 3) 6 Two pipes A and and 20 hours resp	. 10 lacs more that of a total propess is 2) 5 4) 10 B can fill a tan pectively. Both pi	k in 5 hours		equal to $1) \frac{1}{2}$ $3) \frac{3}{4}$	2) $\frac{2}{3}$ 4) $\frac{4}{5}$	()
7.	and B invests Rs. the share of B or lacs in lacs of Ru 1) 4 3) 6 Two pipes A and and 20 hours resp can fill it in (in ho	. 10 lacs more that of a total propess is 2) 5 4) 10 B can fill a tan sectively. Both propers)	han C. Then, ofit of Rs. 20		equal to 1) $\frac{1}{2}$ 3) $\frac{3}{4}$ A candidate se	2) $\frac{2}{3}$ 4) $\frac{4}{5}$ cured 60% of the v	()
7.	and B invests Rs. the share of B or lacs in lacs of Ru 1) 4 3) 6 Two pipes A and and 20 hours resp can fill it in (in he	. 10 lacs more that of a total propess is 2) 5 4) 10 B can fill a tan sectively. Both propers) 2) 6	k in 5 hours		equal to 1) $\frac{1}{2}$ 3) $\frac{3}{4}$ A candidate se elected by a magnitude of the second control of the seco	2) $\frac{2}{3}$ 4) $\frac{4}{5}$ cured 60% of the value of 124 votes	()
•	and B invests Rs. the share of B or lacs in lacs of Ru 1) 4 3) 6 Two pipes A and and 20 hours resp can fill it in (in ho 1) 4 3) 10	. 10 lacs more that of a total propess is 2) 5 4) 10 B can fill a tan sectively. Both propers) 2) 6 4) 12	k in 5 hours		equal to 1) $\frac{1}{2}$ 3) $\frac{3}{4}$ A candidate se	2) $\frac{2}{3}$ 4) $\frac{4}{5}$ cured 60% of the value of 124 votes	()
	and B invests Rs. the share of B or lacs in lacs of Ru 1) 4 3) 6 Two pipes A and and 20 hours resp can fill it in (in ho 1) 4 3) 10 Pipe A can fill an	. 10 lacs more that of a total propess is 2) 5 4) 10 B can fill a tan sectively. Both propers) 2) 6 4) 12 empty tank in 6	k in 5 hours ipes together ()		equal to 1) $\frac{1}{2}$ 3) $\frac{3}{4}$ A candidate se elected by a magnitude of the second control of the seco	2) $\frac{2}{3}$ 4) $\frac{4}{5}$ cured 60% of the value of 124 votes	()
	and B invests Rs. the share of B or lacs in lacs of Ru 1) 4 3) 6 Two pipes A and and 20 hours resp can fill it in (in he 1) 4 3) 10 Pipe A can fill an e pipe B can empty	. 10 lacs more that of a total propess is 2) 5 4) 10 B can fill a tan ectively. Both propers 2) 6 4) 12 empty tank in 6 7 the full tank in	k in 5 hours ipes together () hours, while		equal to 1) $\frac{1}{2}$ 3) $\frac{3}{4}$ A candidate se elected by a manumber of vote 1) 542	2) $\frac{2}{3}$ 4) $\frac{4}{5}$ cured 60% of the value of 124 votes polled is 2) 620	()
	and B invests Rs. the share of B or lacs in lacs of Ru 1) 4 3) 6 Two pipes A and and 20 hours resp can fill it in (in he 1) 4 3) 10 Pipe A can fill an e pipe B can empty both are opened	. 10 lacs more that of a total propess is 2) 5 4) 10 B can fill a tan ectively. Both propers 2) 6 4) 12 empty tank in 6 7 the full tank in	k in 5 hours ipes together () hours, while	96.	equal to 1) $\frac{1}{2}$ 3) $\frac{3}{4}$ A candidate se elected by a manumber of vote 1) 542 3) 435	2) $\frac{2}{3}$ 4) $\frac{4}{5}$ cured 60% of the value of 124 votes polled is 2) 620 4) 713	votes and is s. The total
	and B invests Rs. the share of B or lacs in lacs of Ru 1) 4 3) 6 Two pipes A and and 20 hours resp can fill it in (in he 1) 4 3) 10 Pipe A can fill an e pipe B can empty both are opened if full in (in hours)	. 10 lacs more that of a total propess is 2) 5 4) 10 B can fill a tan sectively. Both propers 2) 6 4) 12 empty tank in 6 7 the full tank in in the empty tank	k in 5 hours ipes together () hours, while	96.	equal to 1) $\frac{1}{2}$ 3) $\frac{3}{4}$ A candidate se elected by a manumber of vote 1) 542 3) 435 The salary of a	2) $\frac{2}{3}$ 4) $\frac{4}{5}$ cured 60% of the vajority of 124 votes polled is 2) 620 4) 713 person was first in	votes and is s. The total ()
	and B invests Rs. the share of B or lacs in lacs of Ru 1) 4 3) 6 Two pipes A and and 20 hours resp can fill it in (in ho 1) 4 3) 10 Pipe A can fill an pipe B can empty both are opened if full in (in hours) 1) 13	. 10 lacs more that of a total propess is 2) 5 4) 10 B can fill a tan ectively. Both propers 2) 6 4) 12 empty tank in 6 7 the full tank in	k in 5 hours ipes together () hours, while 7 hours. If nk it will be	96.	equal to 1) $\frac{1}{2}$ 3) $\frac{3}{4}$ A candidate se elected by a manumber of vote 1) 542 3) 435 The salary of a 10% and later	2) $\frac{2}{3}$ 4) $\frac{4}{5}$ cured 60% of the vajority of 124 votes polled is 2) 620 4) 713 person was first in the same was reductions.	votes and is The total creased by
	and B invests Rs. the share of B or lacs in lacs of Ru 1) 4 3) 6 Two pipes A and and 20 hours resp can fill it in (in ho 1) 4 3) 10 Pipe A can fill an pipe B can empty both are opened if full in (in hours) 1) 13 3) 28	. 10 lacs more that of a total propess is 2) 5 4) 10 B can fill a tan sectively. Both piours) 2) 6 4) 12 empty tank in 6 of the full tank in in the empty tank in 2) 21 4) 42	k in 5 hours ipes together () hours, while 7 hours. If nk it will be ()	96.	equal to 1) $\frac{1}{2}$ 3) $\frac{3}{4}$ A candidate se elected by a manumber of vote 1) 542 3) 435 The salary of a 10% and later 17 then the net cl	2) $\frac{2}{3}$ 4) $\frac{4}{5}$ cured 60% of the vajority of 124 votes polled is 2) 620 4) 713 person was first in	votes and is The total creased by
	and B invests Rs. the share of B or lacs in lacs of Ru 1) 4 3) 6 Two pipes A and and 20 hours resp can fill it in (in ho 1) 4 3) 10 Pipe A can fill an pipe B can empty both are opened if full in (in hours) 1) 13 3) 28 A is twice as fast a	. 10 lacs more that of a total propess is 2) 5 4) 10 B can fill a tan sectively. Both piours) 2) 6 4) 12 empty tank in 6 // the full tank in in the empty tank in 5 // the full tank in in the empty tank in th	k in 5 hours ipes together () hours, while 7 hours. If nk it will be ()	96.	equal to 1) $\frac{1}{2}$ 3) $\frac{3}{4}$ A candidate se elected by a manumber of vote 1) 542 3) 435 The salary of a 10% and later	2) $\frac{2}{3}$ 4) $\frac{4}{5}$ cured 60% of the vajority of 124 votes polled is 2) 620 4) 713 person was first in the same was reductions.	votes and is s. The total () nereased by ed by 10%. is ()
	and B invests Rs. the share of B of lacs in lacs of Ru 1) 4 3) 6 Two pipes A and and 20 hours resp can fill it in (in he 1) 4 3) 10 Pipe A can fill an pipe B can empty both are opened if full in (in hours) 1) 13 3) 28 A is twice as fast a C. Distance cover	. 10 lacs more that of a total propess is 2) 5 4) 10 B can fill a tan ectively. Both piours) 2) 6 4) 12 empty tank in 6 7 the full tank in in the empty tank 2) 21 4) 42 IS B and B is threed by C in one	k in 5 hours ipes together () hours, while 7 hours. If nk it will be ()	96.	equal to 1) $\frac{1}{2}$ 3) $\frac{3}{4}$ A candidate se elected by a manumber of vote 1) 542 3) 435 The salary of a 10% and later 17 then the net cl	2) $\frac{2}{3}$ 4) $\frac{4}{5}$ cured 60% of the value of 124 votes polled is 2) 620 4) 713 person was first in the same was reductioning in his salary	votes and is s. The total () nereased by ed by 10%. is ()
	and B invests Rs. the share of B or lacs in lacs of Ru 1) 4 3) 6 Two pipes A and and 20 hours resp can fill it in (in he 1) 4 3) 10 Pipe A can fill an e pipe B can empty both are opened if full in (in hours) 1) 13 3) 28 A is twice as fast a C. Distance cover covered by A in (i	. 10 lacs more that of a total propess is 2) 5 4) 10 B can fill a tan ectively. Both piours) 2) 6 4) 12 empty tank in 6 7 the full tank in in the empty tank 2) 21 4) 42 IS B and B is threed by C in one	k in 5 hours ipes together () hours, while 7 hours. If nk it will be ()	96.	equal to 1) $\frac{1}{2}$ 3) $\frac{3}{4}$ A candidate se elected by a mumber of vote 1) 542 3) 435 The salary of a 10% and later Then the net cl 1) 1% decrease 3) Nil	2) $\frac{2}{3}$ 4) $\frac{4}{5}$ cured 60% of the value of 124 votes polled is 2) 620 4) 713 person was first in the same was reductionange in his salary 2) 1% increase 4) 11% increase	votes and is s. The total creased by ed by 10%. is () se
	and B invests Rs. the share of B of lacs in lacs of Ru 1) 4 3) 6 Two pipes A and and 20 hours resp can fill it in (in he 1) 4 3) 10 Pipe A can fill an pipe B can empty both are opened if full in (in hours) 1) 13 3) 28 A is twice as fast a C. Distance cover	. 10 lacs more that of a total propess is 2) 5 4) 10 B can fill a tan ectively. Both piours) 2) 6 4) 12 empty tank in 6 7 the full tank in in the empty tank 2) 21 4) 42 IS B and B is threed by C in one	k in 5 hours ipes together () hours, while 7 hours. If nk it will be ()	96.	equal to 1) $\frac{1}{2}$ 3) $\frac{3}{4}$ A candidate se elected by a manumber of vote 1) 542 3) 435 The salary of a 10% and later of the net cl. 1) 1% decrease 3) Nil If the cost price	2) $\frac{2}{3}$ 4) $\frac{4}{5}$ cured 60% of the value of 124 votes polled is 2) 620 4) 713 person was first in the same was reduced in his salary 2) 1% increase of 20 tables is e	votes and is s. The total creased by ed by 10%. is qual to the
	and B invests Rs. the share of B of lacs in lacs of Ru 1) 4 3) 6 Two pipes A and and 20 hours resp can fill it in (in he 1) 4 3) 10 Pipe A can fill and pipe B can empty both are opened if full in (in hours) 1) 13 3) 28 A is twice as fast a C. Distance cover covered by A in (i) 1) 10	. 10 lacs more that of a total propes is 2) 5 4) 10 B can fill a tan sectively. Both propers is 2) 6 4) 12 empty tank in 6 of the full tank in the empty	k in 5 hours ipes together () hours, while 7 hours. If nk it will be ()	96.	equal to 1) $\frac{1}{2}$ 3) $\frac{3}{4}$ A candidate se elected by a manumber of vote 1) 542 3) 435 The salary of a 10% and later Then the net cl 1) 1% decrease 3) Nil If the cost price selling price of	2) $\frac{2}{3}$ 4) $\frac{4}{5}$ cured 60% of the value of 124 votes polled is 2) 620 4) 713 person was first in the same was reduct the same was reducted in his salary 2) 1% increased 11% increased 11% increased 520 tables is each same was reducted from the same was reducted in the same was reducted i	votes and is s. The total creased by ed by 10%. is qual to the
	and B invests Rs. the share of B or lacs in lacs of Ru 1) 4 3) 6 Two pipes A and and 20 hours resp can fill it in (in he 1) 4 3) 10 Pipe A can fill an e pipe B can empty both are opened if full in (in hours) 1) 13 3) 28 A is twice as fast a C. Distance cover covered by A in (i	. 10 lacs more that of a total propes is 2) 5 4) 10 B can fill a tan sectively. Both propers is 2) 6 4) 12 empty tank in 6 of the full tank in the empty	k in 5 hours ipes together () hours, while 7 hours. If nk it will be ()	96.	equal to 1) $\frac{1}{2}$ 3) $\frac{3}{4}$ A candidate se elected by a manumber of vote 1) 542 3) 435 The salary of a 10% and later of the net cl. 1) 1% decrease 3) Nil If the cost price	2) $\frac{2}{3}$ 4) $\frac{4}{5}$ cured 60% of the value of 124 votes polled is 2) 620 4) 713 person was first in the same was reduced in his salary 2) 1% increase of 20 tables is e	votes and is s. The total creased by ed by 10%. is qual to the

9	9. A merchant gets Rs. 500 if he sells either item A at 15% profit and item B at 10% loss or	108.	The least number to be multiplied by 17640 so that the resulting number is a perfect square
	item A at 15% loss and item B at 10% profit. The cost of item A is (in Rupees)	7	is ()
		100	1) 10 2) 6 3) 21 4) 15
	1) 100 2) 150	109.	For integers a and b, let a * b denote the remainder obtained when ab is divided by 12.
	3) 200 4) 300		Then (5 * 3) * 4
100	In a joint venture, three persons A, B, C invest		1) 3 2) 0 3) 1 4) 5
1	respectively $\frac{1}{4}$ of the capital, $\frac{1}{5}$ of the capital	110.	If $y = x + \frac{1}{x}$, then $x^4 + x^3 - 4x^2 + x + 1 =$
	and the rest. Then, the share of B in the total		1) $x^2(y^2+y-2)$ 2) $x^2(y^2+y-3)$ ()
1	profit of Rs. 6,00,000/- in Rupees is		3) $x^2 (y^2 + y - 4)$ 4) $x^2 (y^2 + y - 6)$
1	1) 1,50,000 2) 3,30,000	(II) AI	GEBRICAL AND GEOMETRICAL ABILITY
	3) 1,20,000 4) 1,00,000	_	The geometric mean between a ² and b ² is
101.	The sum of three consecutive positive integral		1) $ ab $ 2) a^2b^2 ()
	multiples of 3 is 72. The largest among them		b ²
	is ()		3) ab 4) $\frac{b^2}{a^2}$
	1) 21 2) 24 3) 27 4) 30	112.	The state of the s
102.	The least number which when divided by 4, 6,		double the other root, then, ()
	8, 12 and 16 leaves a remainder 2 in each case		1) $b^2 = 9ac$ 2) $2b^2 = 3ac$
	is ()	112	3) $b = 2a$ 4) $2b^2 = 9ac$
	1) 46 2) 48 3) 50 4) 56	113.	If $K + 2$, $4K - 6$ and $3K - 2$ are three consecutive terms of an arithmetic progression
103.	The l.c.m. of 54, 90 and a third number is 1890		then, K is
• .	and their g.c.d. is 18. Then, the third number		1)4 2)3 ()
	is ()		3) 2 4) 1
	1) 126 2) 144 3) 224 4) 156		(× 2)10
104.	If m and n are natural numbers such that	114.	The coefficient of x^4 in $\left(\frac{x}{2} - \frac{2}{x^2}\right)^{10}$ is ()
	$m^n = 121$, then $(m-1)^{n+1} =$		
	1) 1100 2) 1000		1) $\frac{45}{256}$ 2) $\frac{45}{64}$
	3) 999 4) 1001		256 64
105.	If the sum of the first n natural numbers is a		3) $\frac{68}{45}$ 4) $\frac{64}{256}$
	perfect square a² where a is less than 100, then,		³⁾ 45 ³⁾ 256
	the possible values of n are ()		(- 3)5
	1) 1, 8, 49	115.	If the 5 term of $\left(2x^2 + \frac{3}{x}\right)^5$ is 10, then, $x =$
	3) 1, 7, 26 4) 1, 9, 27		1) 6 2) -6 ()
106.	The number of four digit numbers greater		1) 6 2) -6 () 3) 9 4) ±8
	than thousand that can be formed with the		
	digits 0, 1, 2, 3 is ()	116.	If $A = \begin{bmatrix} 1 & 2 \\ 0 & 1 \end{bmatrix}$, then $A^n =$
	1) 18 2) 19		
10-	3) 24 4) 28		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
107.	$(2+\sqrt{3})^7+(2-\sqrt{3})^7=?$		[U 1] ->[0 1]
	1) 10080 2) 10082	•	[1 2n] [1 2]
,	3) 10086 4) 10084		3) $\begin{bmatrix} 1 & 2h \\ 0 & 1 \end{bmatrix}$ 4) $\begin{bmatrix} 1 & 2 \\ 0 & n \end{bmatrix}$
		-	

117. Equation of the line passing through the point (2, -3) and perpendicular to the line segment joining the points (1, 2) (-1, 5) is () 1) 2x - 3y - 13 = 0 2) 2x - 3y - 9 = 0 3) 2x - 3y - 11 = 0 4) 2x - 3y - 7 = 0 118. The two sides forming the right angle of a triangle whose area is 24 sq. cm are in the ratio 3: 4. Then the length of the hypotenuse (in cm) is () 1) 12 2) 10 3) 8 4) 5 119. $C_0 + \frac{C_1}{2} + \frac{C_2}{3} + + \frac{C_n}{n+1} =$ ()	 125. If a flag staff of 6 meters height, placed on the top of a tower throws a shadow 2√3 of meters along the ground, then, the angle in degrees that the sun makes with the ground is () 1) 30° 2) 45° 3) 60° 4) 75° 126. If sinθ = 15/17, then, for 0° < θ < 90°, () 15 cotθ + 17 sinθ/8 tanθ + 16 sec θ
1) $\frac{2^{n+1}}{n+1}$ 2) $\frac{2^{n+1}-1}{n+1}$ 3) $\frac{2^{n+1}+1}{n+1}$ 4) $\frac{2^n-1}{n+1}$	1) $\frac{23}{49}$ 2) $\frac{22}{49}$ 3) $\frac{18}{49}$ 4) $\frac{17}{49}$
1171 1171	3) 49 4) 49
120. The equation of the circle passing through the origin and making intercepts of 4 and 3 on	127. If the lines $2x + 3y = 6$; $8x - 9y + 4 = 0$, $ax + 6y$
OX and OY respectively is ()	= 13 are concurrent, than, a = ()
1) $x^2+y^2-3x-4y=0$ 2) $x^2+y^2+4x+3y=0$	1) 3 2) -3
3) $x^2+y^2+3x+4y=0$ 4) $x^2+y^2-4x-3y=0$	$\begin{array}{c c} 3)-5 & 4) 5 \\ \hline 128. & \text{If a > 1, b > 1 and a + b = ab and if} \end{array}$
121. The equation of the straight line which cuts	128. If a > 1, b > 1 and a + b = ab and if
off equal intercepts from the axis and passes	$x = 1 + \frac{1}{a} + \frac{1}{a^2} + \dots, y = 1 + \frac{1}{b} + \frac{1}{b^2} + \dots$
through the point $(1, -2)$ is $()$	a a ² b b ² ,
1) $2x + 2y + 1 = 0$ 2) $x + y + 1 = 0$	1 1
3) x + y - 1 = 0 4) 2x + 2y - 1 = 0	$then \frac{1}{x} + \frac{1}{y} = $ ()
122. The maximum value of the expression $2 + 5x - 7x^2$ is	1) 0 2) 1
	3) 2 4) 4
1) $\frac{28}{81}$ 2) $-\frac{28}{81}$ 81 81	129. If the matrix $\begin{bmatrix} 2 & K \\ 4 & 10 \end{bmatrix}$ is invertible, then $K \neq K$
3) $\frac{81}{28}$ 4) $-\frac{81}{28}$	1) 2 2) -5 ()
	3) 10 4) 5
123. If $x^y = e^{x-y}$, then, $\frac{dy}{dx}$	130. $\lim_{x \to \infty} \frac{x(x+1)(2x+3)}{x^3} =$ ()
1) $\frac{1}{1 + \log x}$ 2) $\frac{1}{(1 + \log x)^2}$	1) 1 2) 2
	3) 0 4) 3
3) $\frac{\log x}{(1 - \log x)^2}$ 4) $\frac{y \log x}{x(1 + \log x)}$	131. $\frac{\text{Lim}}{x \to 0} \frac{\sqrt[3]{8 + x - 2}}{x} = $ ()
124. If A + C = B, then, tan A tan B tan C = ()	**************************************
1) tan B – tan A – tan C	1) $\frac{1}{2}$ 2) $\frac{1}{3}$
2) tan B + tan A - tan C	¹ / ₂ ² / ₃
3) tan B - tan A + tan C	1
4) tan A + tan B + tan C	3) $\frac{1}{4}$ 4) $\frac{1}{12}$

_			_	the state of the s
132	$2. \text{If } y = 4x^3 - 3x^2 + 2$	$2x-1$, then, $\frac{dy}{dx}$ at $x=\frac{1}{2}$ is	142.	
	1) 0	2)1 ()		28, 30, 32, 38, 39, 46, 48 from the mean is() 1) 7.6 2) 6.7
	3) 2	4) 3	1	3) 7.8 4) 8.7
133		pectively, the middle points	143.	
	AB, BC and CA of	triangle ABC, then the ratio		()
1	$\triangle ABC : \triangle MNR =$	()		1) $\frac{\text{M.D.}}{\text{Mean}} \times 100$ 2) $\frac{\text{S.D.}}{\text{Mean}} \times 100$
	1) 2:3	2) 3 : 2		Mean Mean
	· 3) 4 : 1	4) 1 : 4		S.D. 100 M.D. 100
134.	If $f: R\rightarrow R$ and	g: R- R are defined by		3) $\frac{\text{S.D.}}{\text{M.D.}} \times 100$ 4) $\frac{\text{M.D.}}{\text{S.D.}} \times 100$
	f(x) = x - [x] and	g(x) = [x] for each x in $ R$,	144.	The frequency of the inclusive type class 20-
		eatest integer not exceeding		25 of the following data is 9, 10, 17, 20, 12, 21,
	x, then, the range	` '		22, 14, 15, 18, 23, 19, 24, 27, 28, 25, 17, 18, 13,
	1) ¢	2) {0}		12, 6, 7, 8, 9, 12. () 1) 5 2) 6
125	3) Z	4) R		
135.	into the set {1, 2, 3	jections of the set {1, 2, 3}	145	A and B independent events. The probability
	1) 10	, 4, 5, 6} is (). 2) 30	143.	A and B independent events. The probability
	3) 60			that both A and B occur is $\frac{1}{6}$ and the
136.		4) 120 =0 has equal roots, then K=		6 2
150.	1) 1 (or) -1			. 1
		2) 2		probability that neither of them occurs is $\frac{1}{3}$.
127	3) 3	4) 4 (or) -8	10.7	Then the probability of occurrence of A is
137.		f an arithmetic progression and common difference 'd',		5
	with in stitering a 2	ind common difference a,		1) $\frac{5}{6}$ 2) $\frac{1}{2}$ (1)
	\sum_{\text{\text{\$\sigma}}} \cdot \ -			
	then $\sum_{k=1}^{n} t_{2k} = \dots$	()		3) $\frac{1}{12}$ 4) $\frac{1}{18}$
	1) na + (n - 1)d	2) n (a + nd)		12 , 18
	3) na + (n + 1) d		146.	
138.	If PORS is a cyclic	rhombus, then $\angle Q = ($)		probability of getting at least six heads is(
	1) 60°	2) 150°		. 39 29
	3) 120°	4) 90°		1) $\frac{39}{256}$ 2) $\frac{29}{256}$
139.	The point of conc	urrence of medians of a		21 27
	triangle is	()		3) $\frac{31}{256}$ 4) $\frac{37}{256}$
	1) Incentrè	2) Orthocentre	l 	
	3) Centroid	4) Circumcentre	147.	If the standard deviation of a ₁ , a ₂ , a _n is s
140.	If (0, 0), (2, 2) and	(0, a) form a right angled		then, the standard deviation of $a_1 + b$, a_2+b , a_n+b is
	isosceles triangle, t			1) s + b 2) s - b
	1) 4	2) –4		3) s 4) sb
	3) 3	4) –3	148	The mode of the distribution for which the
	(III) STATISTI	CAL ABILITY	140,	arithmetic mean is 4.6 and median is 6.1, is
141.		an of the incomes of 100		1) 18.3 2) 9.2 ()
		y is Rs. 50 per day and the		3) 9.1 4) 2.5
		the incomes of 75 workers	149.	Coefficient of skewness = ()
		r day. Then the arithmetic		
		s of the rest of the workers		Mode – Mean 2) Mean – Mode
	per day (in rupees)	. , ,		s.D. 29 s.D.
	1) 60	2) 50		Mode - Mean Mean - Mode
	3) 70	4) 80		3) Variance 4) Variance

150. Three six faced dice are thrown together. The	(PART-II)
probability that exactly two of the three	Choose the correct Answer:
numbers are equal is ()	161. An Actuary is ()
1) $\frac{126}{216}$ 2) $\frac{90}{216}$	1) One who presents himself
1) $\frac{126}{216}$ 2) $\frac{90}{216}$	2) One who projects himself
120 96	3) One who works in a sanctuary
3) $\frac{120}{216}$ 4) $\frac{96}{216}$	4) One who makes calculations connected with
	insurance
SECTION - C	162. CRR stands for ()
COMMUNICATION ABILITY	13 Cash Reserve Ratio
Questions: 50] [Marks: 50	2) Cumulative Reserve Ratio
(PART - I)	3) Credit Requirement Ratio
Choose the correct meaning for the word:	4) Compulsory Reserve Ratio
151. Alleviation ()	163. MOU is the abbreviation of ()
Decoration Exaggeration	Management of Undertaking
3) Mitigation A) Aggravation	2) Monetary output Unit
152. Recycle	3) Memorandum of Understanding
1) Ride a bicycle 2) Regulate	4) Marketing of Unsaleables
3) Introduce a change	164. MS - Excel is used for (
4) Convert waste to reusable material	1) Word processing
4.60 11.1	2) Tabulation and number crunching
1) Rustic 2) Of the city	3) Spell check
•	4) Website creation
	165. GUI is the abbreviation of
	1) Groupware User Interface
7) Too ready to believe 2) Hasty	2) Graphic User Interface
3) Courteous 4) Hard to please	WGraphics User Identification
, , , , , , , , , , , , , , , , , , , ,	4) Graphic Universal Imaging
y) Faith in oneself 2) Admirer	166 4-7
3) A person that you trust 4) A secret agent	•
56. Panacea ()	Y) A small picture on a display screen
1) A kind of tree 2) A cure for all diseases	2) An application software
3) An incurable disease 4) A sleep inducing drug	3) A back up system
ul in the blank choosing the correct word:	A computer designed car
57. The old lady is anstory teller. ()	167. IPO is the abbreviation of (
1) adept 2) adopt	1) Initial Private Offering
3) adapt 4) adrift	2) Important Public Organisation
58. Gardner wrote many detective novels	3) Initial Public Offering
working as a criminal lawyer. z()	4) Important Public Offering
1) beside 2) besides	169 Potent
3) because 4) aside	The sole right to manufacture and sell a produc
59. Children guilty of crime are called	A negotiable instrument
uchnquents.	
1) jubilant 2) juridicial	3) An exclusive trade right
2) indici-1	4) A design
	169. A commonly accepted proper behaviour in th
1) And the science of ancient cultures.	Net is called
3) Ornithology 4) Parapsychology	1) Net manners 2) Web manners
	3) Net protocols (1) Netiquette

						-
170. CAD stands for		177.		e horses, beggars	would ride'	
2) Computer A	rithmetic Design		This sentence	40 C C C C C C C C C C C C C C C C C C C	Langue ("
1 ' '	nalogue Design			utter impossibility	CONTRACTOR OF THE PARTY OF THE	
	rchitecture Development		2) expresses a c			- 1
-		,		ficult possibility		. 1
	PART-III)		4) states an abs		1200	-1
Choose the correct an			verb / preposit	k with the approp tion.	riate phars	e/
1	mind lending your umbrella?	178.	We had a plea	sant conversation	n a cı	սթ
B: Yes, I do.			of tea.		()
In this convers	ation ()		1) with	2) on		
 B is willing t 	o lend it to A		3) over	4) during		
2) B excuses his	mself	179.	The visiting d	ignitary the	President.	(
3) B is hesistant	:)			
4) B is annoyed	by the request		1) called out	2) called o	n	
	on't cut yourself; that knife is		called off	4) called a	ıt	
very sharp".	()	180.	I have decide	d to my hou	ise. ()
The speaker		,	1) let off	2) let out		
1) expresses fea	r 2) gives a warning		3) let in	4) let dow	m .	
	()	181.	He suddenly.	a fortune whe	n his aunt d	ied.
3) cracks a joke			1) came to	2) came u		1
	ece of news straight from the		(2) came in	4) came i		
horse's mouth"		182		are not suitable .		0.
The underlined	pharse means	1 .0-	1) for	2) with		. '
 directly from 	the horse itself	1	3) to	4) in	•	
2) while riding t	he horse	102		ible. What's	2 (
3) from one who	has direct personal knowledge	183.				,
of the matter			1) took place			
4) from one who	has a mouth like the horse's		3) happened	4) haunte		
	". The passive voice form of	184.		ame feather are b	,	
this sentence is	()	1	together.		(. ,
1) Let the door t	o abut	ı	1) flock	2) fly		
/ '			3) nest	4) gather		
2) The door oug		185.	I coffee	to tea.	(
The door may	be shut	1	1) like	2) want		
4) Let the door s	hut		3) prefer	4) taste		
	e in a name?" The speaker			PART - IV		
means that	()	1	Daniel that Co	llowing passag	o and an	cwe
1) all names are	unnecessary	1	questions 180		E 0114 444.	3176
2) it is useless to	have a name		•			(
3) a name is of s	ome consequence	Gan	dhi wrote thus	nave a superfluou	s store of t	•
// a name is an a		l .	Gandni rich i	not need, and wh	ich are neal	ecte
	ep, Sir", said the watchman to			while millions are		
, , , , , , , , , , , , , , , , , , , ,	watchman, in this sentence			sustenance. If		
				ly of what he need		
	master indirectly ()		be in want, an	d all would live in	contentmer	at. A
2) gives a warni			it is, the rich a	re discontented no	lessthan the	poo
3) cautions his n	naster politely	1	The poor man	would fain beco	me a million	naire
4) expresses an	xious concern for his master's		and the milli	onaire a multimil	lionaire If	onl
safety			the rich keep	their own property	within mod	lerat
-	· · · · · · · · · · · · · · · · · · ·	1		664	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	-

limits, the starving millions will be easily fed. Working for economic equality means abolishing the eternal conflict between capital and labour. It means the levelling down of the few rich in whose hands is concentrated the bulk of the nation's wealth on the one hand, and a levelling up of the semi-starved naked millions on the other. A nonviolent system of government is clearly an impossibility so long as the wide gulf between the rich and the hungry millions persists. A violent and bloody revolution is a certainty one day unless there is a voluntary abdication of riches and the power riches gives and sharing them for the common good. The real implication of equal distributions is that each man shall have the wherewithal to supply all his natural wants and

- 186. Working for economic equality means (
 - doing away with capital altogether
 making all people rich
 - 3) making the rich and the poor equal
 - 4) levelling down the few rich and levelling up the semi-starved millions
- 187. There is bound to be a bloody revolution one day unless
 - 1) the rich voluntarily share their riches and power with the poor
 - there is a strict law and order machinery to suppress it
 - 3) the rich respect the poor
 - 4) the well-to-do renounce their wealth
- 188. A non-violent system of government is an impossibility so long as
 - 1) people are violent
 - 2) people are kept hungry
 - 3) the poor live in miserable houses and the rich in palaces
 - the wide gulf between the rich and the hungry millions persists
- 189. Equal distribution really implies that ()
 1) each man has the means by which he can
 - supply all his natural wants and more
 2) the rich are to be robbed and their wealth
 distributed among the poor
 - 3) all become millionaires
 - 4) there is nothing to be distributed
- 190. According to Gandhi, no one will be in want if
 - 1) was content with what he had
 - 2) kept with him only what he needed, and nothing in excess

- 3) did not desire what belonged to another
- 4) accepted poverty as the will of God

Read the following passage and answer questions 191-195:

It is essential that local government authorities regard the quality of the air as one of their major responsibilities. In particular, they can plan their towns, in relation to the traffic they must withstand. Air must be 'planned' if its quality is to us ensured.

This leads on to the main goal, which is to reduce substantially and in time cut out air pollution at source. Future generations will recognise this-as with most pollution - as waste of recyclable resources. And with proper planning, particulary of energy, it should be unnecessary. The atmosphere - volcanoes, earthquakes, etc., in excess of man's efforts to date by a process of continuous recycling. But this capacity to clean so itself could be impaired. as has happened with some rivers and lakes, and this must be prevented. Hence the need to know of any substantial or potentially harmful emissions. This is possible. Industrialists, for example, could be required to report all discharges into the atmosphere as they do with those into water or dumping on land. Increasingly, our wastes are incinerated and blown into the atmosphere; more and more we use dangerous substances with a long active life, some of which can have harmful interactions or become concentrated for too long in one place.

Man is always interfering with nature, sometimes intentionally, sometimes accidentally or unconsciously. Air pollution is obviously not intended, but that does not make its effects any less serious and man should act consciously to control it. Air pollution may, in the long term, cause an imbalance in the environment which exceeds the interferences or controls deliberately imposed by man.

- Many types of pollution were successfully controlled without human effort because()
 - 1) there were many volcanoes and earthquakes
 - 2) in ancient times there wasn't nuch pollution
 - 3) men were incapable of controlling pollution
 - 4) the atmosphere is involved in a process of continuous recycling
- 192. What examples of natural pollution does the passage mention?
 - 1) rivers and lakes
 - 2) valcanoes and earthquakes

1	
3) harmful emissions 4) recyclable resources	our clothes, and the circumstances of our homes. But on the screen we can feast our eyes on people
193. Industrialists are required to report ()	selected to appear because of their good looks
1) discharges into the atmosphere	dressed in expensive and sometimes extrave
2) pollution of air and water	gantly showy clothes, and moving about most of the time in the plushy environment of wealth!
3) discharges into water or dumping on land	What you cannot have yourself, at least you can
4) pollution of air and land	and who knows one downward other people,
194. Which is an unintended pollution? ()	and, who knows, one day you may have these things too, like the stars who have comeup from
1) Air pollution 2) Water pollution	nowhere but now earn large fortunes!
3) Sound pollution 4) Land pollution	196. Why do we enjoy films in which there are
195. When will attempts to control air pollution	larger-than-life characters?
become unnecessary ? ()	1) We don't like films to be true to life.
1) when there is proper planning of energy	2) We like the big screen.
2) when all resources become recyclable	3) Art is not for art's sake.
3) when industrialists prevent pollution	They enable us to compensate ourselves for our shortcomings.
4) when our wastes are blown into the atmosphere Read the following passage and answer questions 196-200: The overwhelming vote given by the greater part of the public has so far been in favour of entertainment which passes the time easily, and satisfies that part of our imagination which depends on the more obvious kind of daydreams. You can argue that these daydreams are usually substitutes for our own inactivity, ineffectualness,	197. Why do we enjoy films based on crime an violence? () 1) Human beings admire criminals. 2) They provide for us some relief from the boredom of routine life. 3) Crime and violence have become part of our life. 4) All human beings are sadists. 198. What aspect of human psychology does the author refer to in the second paragraph?
and lack of power of influence, so that we make	1) Human beings enjoy the very sight of qualities
up for what we secretly regard as our deficiencies	and luxuries they are deprived of. 2) Human psychology is very complex.
by watching the stimulating adventures of other people who are larger, stronger, more effective,	Human psychology is very complex. 3) Human beings love being poor.
or more beautiful than we are. The conventional	4) Human beings admire themselves.
starts act out our daydreams for us in a constant	199. What does the word plyshy mean?
succession of existing situations set in the open	1) extremely soft 2) extremely happy
spaces of the American West, or in the jungles	3) extremely comfortable and expensive
we will never visit (we would not dare to, most	4) extremely delicate

Whet ic: we admit it to ourselves or not, most of us very conscious of deficiencies in our looks,

of us, if we could), or in the underworld of great

cities where crime and violence may not pay in

the end, but are very exciting to watch if your

youth is being spent in the day-to-day routine of

school or office, on the one hand, or in the kitchen

and living-room of 39 Brank 12, on the other.

3) That which feeds their imagination.4) That which transforms daydreams into nightmares

2) That which makes their daydreams become

200. What kind of entertainment do people like

1) That which kills their strong desires.

most?

real.

	-	
П	7	7
	•	

1)3	2) 2	3) 2	4) 4	5) 3	6) 3	7)3	8) 4	9) 3	10) 1
11) 3	12) 4	13) 2	14) 3	15) 3	16) 1	17) 4	18) 3	19) 4	20) 3
21) 2	22) 4	.23) 2	24) 3	25) 2	26) 2	27) 4	28) 1	29) 2	30) 3
31).2	32) 4	33) 4	34) 2	35) 3	36) 4	37) 1	38) 2	39) 3	40) 2
41)3	42)3	43) 2	44) 1	45) 2	46) 1	47) 2	48) 1	49) 3	50) 2
51) 2	52) 4	53) 1	54) 4	55) 3	56) 2	57) 1	58) 1	59) 3	60) 3
61) 4	62) 3	63) 2	64) 4	65) 2	66) 1	67) 4	68) 2	69) 4	70)3
71) 2	72) 3	73) 2	74) 2	75) 1	76) 3	77) 1	78) 3	79) 2	80) 4
81) 1	82) 3	83) 4	84) 3	85) 3	86) 3	87) 1	88) 4	89) 3	90) 4
91) 2	92) 2	93) 3	94) 4	95) 1	96) 2	97) 1 .	98) 4	99) 4	100) 3
101) 3	102) 1	103) 4	104) 2	105) 1	106) 1	107) 4	108) 1	109) 2	110) 4
111)1	112) 4	113) 2	114) 2	115) 3	116) 3	117) 1	118) 2	119) 2	420) 2
121) 2	122) 3	123) 4	124) 1	125) 3	126) 1·	127) 4	128) 2	129) 4	130) 2
131)4	132) 3	133) 3	134) 3	135) 4	136) 4	137) 2	138) 4	139) 3	140) 1
141) 4	142) 1	143) 3	144) 1	145) 2	146) 4	147) 3	148) 3	149) 2	150) 2
151) 4	152) 4	153) 4	154) 1	155) 1	156) 2	157) 1	158) 2	159) 4	160) 2
161) 4	162) 1	163) 3	164) 2	165)3	166) 1	167) 3	168) 1	169) 4	170) 1
171)3	172) 2	173) 3	174) 1	175) 4	176) 3	177) 3	178) 3	179) 2	180) 3
181)3	182) 1	183)3	184) 3	185)3	186) 4	187) 1	188) 4	189) 1	190) 2
191) 4	192) 2	193) 1	194) 1	195) 1	196) 4	197) 2	198) 1	199) 3	200) 2

KEY WITH SOLUTIONS ICET - 2005

1. (3)

At present his father age 45 years x is 21 years younger than his father = 45 - 21 = 24 years

Age of x after 7 years = 24 + 7 = 31 since, we have used both the conditions.

- 2. (3)
 - 2x is never odd for integer x and 3x is odd for all positive

integer x. Hence II alone is sufficient

- 3. (3)
- 4. (4)

Both the statements I and II together are not sufficient.

5. (3)

Both I and II we can calculate Days.

6. (3)

Both (I) and (II)

- as 3A 2B + C = 0
- A + B = C
- ⇒ B = 4A eliminating C
- ⇒B>A

However with either alone I or II we cannot determine unequality among A and B.

- 7 (3
 - (I) one table and one chair cost = Rs. 250
 - $= x + y = 250 \dots (1)$
 - (II) Two tables and three chairs cost = Rs. 800
 - $= 2x + 3y = 800 \dots (2)$
 - (1) x 3 = 3x + 3y = 750
 - (2) = 2x + 3y = 800

sub. x value in (1)

$$= y = 250 - x$$

⇒ cost of one table x = Rs. 50