CAT 2004 (November) Answer Key

1.	3	41.	4	81.	3	121.	2
2.	1	42.	2	82.	2	122.	4
3.	2	43.	1	83.	4	123.	3
4.	1	44.	2	84.	2		
5.	4	45.	1	85.	2		
6.	2	46.	3	86.	3		
7.	1	47.	2	87.	3		
8.	4	48.	1	88.	4		
9.	4	49.	3	89.	3		
10.	3	50.	4	90.	2		
11.	1	51.	4	91.	1		
12.	4	52.	3	92.	4		
13.	4	53.	4	93.	1		
14.	1	54.	3	94.	4		
15.	3	55.	2	95.	2		
16.	2	56.	2	96.	2		
17.	2	57.	2	97.	1		
18.	2	58.	3	98.	2		
19.	1	59.	4	99.	4		
20.	4	60.	2	100.	2		
21.	3	61.	3	101.	1		
22.	2	62.	2	102.	2		
23.	4	63.	1	103.	3		
24.	1	64.	3	104.	3		
25.	1	65.	3	105.	1		
26.	1	66.	3	106.	1		
27.	2	67.	3	107.	4		
28.	1	68.	2	108.	1		
29.	3	69.	4	109.	4		
30.	2	70.	2	110.	3		
31.	4	71.	1	111.	2		
32.	4	72.	1	112.	4		
33.	3	73.	4	113.	1		
34.	3	74.	3	114.	3		
35.	1	75.	1	115.	3		
36.	4	76.	4	116.	3		
37.	3	77.	1	117.	3		
38.	3	78.	2	118.	3		
39.	4	79.	1	119.	1		
40.	1	80.	4	120.	3		



CAT 2004 (November) Solutions

1.	Canada (C) ; Netherlands(N) ; India (I) ; UK (UK) ; USA (U)							SA		
	Uni	University		2			3	4		
		-		- C/UK			X	X		
			N/I N/I		-		N X	X		
			-	-			X	UK		
			N/	Ί	-		Х	Х	1	.4.
		5	6	7		0			1	15.
		3	0			0				
		-	Х	С	/UK	X			1	16
		N/I	Х	-		Х				
		N/I	Х	-		Ι				
		- N/I	X	C	/UK	X			1	17.
	*Day 2.3 H	From Co	untrv 1	table	e vou ca	an f	ix uni	versitv		
	3,4,6,8. *U	JS can't	be in 1	l or	5 becau	ise	it is in	6.	1	8.
2.	Option 1.			-					_	
3.	University 4	belongs	to Ul 7 defi	s an	d exact	ly c	to Uk	the other	1	19
	other belong	to Can	ada. T	Thus	in eith	ngs er c	ase th	e students	1	
	from two un	iversitie	s visit	ed t	he page					
4.	As for 4 of t	he unive	rsities	the	countr	ies a	are alr	ready	2	20.
	1 or 5 belon	g to eith	er Net	herl	ands or	Ind	g 4 um lia one	e each. The	e	
	remaining tw	vo unive	rsities	i.e.	2 or 7	belo	ong to	either		
	Canada or U	JK one each. Thus the total universities							2	21.
	None i.e. the	e first on	btion.							
5.	Leaving Jap	aving Japan & Malaysia, rest all show maximum								
-	dissimilarity	<i>.</i>		т	<u> </u>		1	1.6" (_	10
0.	Among the o	ie options in Japan, D has been ranked first to its rank 5 th under India. That is the maximum						n 2	22.	
	difference. Hence Japan.									
7.	Leaving Chi	ina rest a	ll cou	ntrie	es at lea	st s	how a	L		
8	Again in the	countrie	ice of	2. ilan	d & Iar	nan	D ha	s heen	_	
0.	ranked 5 th and 1 st respectively.									
9.	Simple visua	Simple visual observation. The minimum of Dubey and								
	maximum of	f Dubey	,both	are	higher t	han	the re	espective		
10.	Similarly we	e can con	nes. nelude	tha	t Coom	ar f	amilv	will have		
	the lowest a	verage in	ncome	bec	ause al	l th	e three	e values ar	e	
11	comparative	ly lesser	in tot	al.			h	un hav o	- 2	23
11.	member of t	me and he Ahui	iowes a fami	t exj lv.	penditu	re 1	s snov	vn by a	-	
12.	A bit length	y if you	start c	alcu	lating b	out i	if visu	al		
	observation	with a co	certain amount of reasoning is applied,						l,	
	you will eas	ily locate	e Dube ubev f	Dubey family, as the income and						
	thus it will h	nave the	lowest	owest savings. That you can also						
	judge from t	he midd	le line	tha	t repres	ent	s inco	me =		1
12	expenditure.	$\frac{1}{1}$ Thus 4°	optic	on.	1.1.1.1.1.1		1/5 0	1.4.5	2	4.
13.	Aggregate o 12. The ques	stion also	oi tara o state	a:-(4 s th	x+x+x+x	x+y ersc	$y_{0} = 2$ on has	$.4 \times 5 =$ the same		
	score in exa	ctly three	e of th	e su	bjects.	Nov	w if o	ne of the		
	subjects has	4 marks	, this 1	mea	ns from	the	e rema	ining 4		
	subjects, we	have to	get a s	scor hav	e of 8 n	narl	cs. If y en the	ou take	2	25.
	becomes 2, but the questions states exactly three thus i.e.									

	not possible. Now the only possibility remains is that Tara must have received the same marks in the two subjects as she has got in Finance i.e. 4 marks. Thus she has three B grades and two F grades. Now to answer the question, out of the four options given neither Ismet, nor Hari nor Jagdeep has B or F grade in operations. Only Manab has B grade and he could have the same grade as Tara. Thus 4 th option.
14.	0+2+2+x+y = 16 i.e $x+y = 12$ hence $x = y = 6$. Hence Grade A.
15.	Fazal obtained B grade in strategy, so Utkarsh also gets B grade in marketing.Now from here we can calculate that Utkarsh would have obtained D grade in Finance.
16.	We can calculate that Gowri gets C grade in strategy. Now Hari has scored only 2 points from strategy and finance combined. Hence it is Hari.
17.	20% of newly bought grinder is disposed off in 2 years exactly. Therefore, 20% of $30(1997)$ and 20% of 50 (1998 i.e $80-30$) = 16.
18.	It will be the difference in the operational grinders plus the grinders being disposed off in that year. Hence, $44 + 6 = 50$.
19.	10 were disposed in 1997, so the newly added were in 1997 were 30. Therefore 6 will be discarded in 1999. Hence the total newly added is $6+14 = 20$.
20.	Because we do not have the data about how many grinders were disposed off in 1996, we can not calculate the newly added of that year and so we can not calculate the disposal of 1998 and hence so for the year 2000.
21.	Incorporating both the statements :- 1) $2P + 1G < 1P + 2 G$ From this $G > P$ 2) $1P + 2 O = 1 O + 2 G$; $P + O = 2G \Rightarrow G = P + O/2$, From this $O > G$ Hence O is the greatest.
22.	If we use the first statement then in 21 coin throws there can be a possibility that there are 10 H and 10 T and the last can be a head or tail. There is another possibility of 12 T and 9 H. So first statement cannot give the answer. Out of these two possibilities, first cannot be true as in that case the net result is either one head extra or one tail extra. But with one extra head or tail he cannot reach at either end. Considering the second possibility, he can go additional 3 tails, means he should have reached at the blue mark. From the second statement, when we incorporate 2 nd statement we can always be sure that man will be at the blue mark.
23.	With the given data nothing can be concluded. Using the first statement, we can conclude that 7 notes of 5 & 10 were used combined and 6 notes of 1 & 2 were used combined. Price is a multiple of 10 hence there has to be 4 (2 rupee) & 2(1 rupee) notes to make it 10. In the first group of 5 & 10 rupee notes, various possibilities can arise for example:- 2(5 rupee) or 4 (5 rupee) or 6(5 rupee) etc., which will result in different prices.
24.	Using the first statement, lets assume A B C D are the four people with A having the highest score, B the second best, C third and D least. Then A will vote B, B will vote A, C will also vote A. In case if D votes B still with the tie A will win because of better score. Hence first statement is sufficient to answer
25.	Statement is sufficient to answer. Statement 1 doesn't give any useful information .But looking at the statement 2, we can say that when 2 here
	100 kmg at the statement 2, we can say that when 3 boys



	ware on the ten 5 and rechmining 2 rd among the girls and
	were on the top 5 and rashini was 5 among the girls and
	we also know that in overall rank kumar secured 6
	.Therefore Kumar is ranked higher than Rashmi.
26.	From I st Statement, 20 % of Zakib > 25% of Supriyo,
	So 30% of Zakib > 37.5% of Supriyo, hence cannot
	comment anything
	From the second statement we know that 13% of Supriyo
	> 10 % of Zakib.
	Hence 39% of S > 30% of Z and suprivo spends 40 % on
	education which will definitely be higher.
27.	In this question we can not find the M-index of Virender
	and vuvrai conclusively. So among Rabul and Souray
	Sauray will have a higher M index for sure of 50
	sompared to Debul's 40
20	$\frac{1}{1} = \frac{1}{1} = \frac{1}$
28.	First let us calculate the complete data. 1)Pakistan :- 90%
	is 198. Therefore total against Pakistan is 220. Hence the
	other two batsman(R & S) could have scored 22 together.
	2)South Africa :- 70% is equal to 175. Therefore total is
	250 and 75 has been scored by (V & Y). 3)Australia :-
	80% is 192. Hence total is 240 and 48 has been scored by
	the other two batsmen (K & V). R- index is difference
	between maximum and minimum. We are looking for
	lowest R-index possible. Scores of kaif : 28, 51 and
	between 0-48 against Australia.Mimimum R-index for
	kaif is possible when his score against Australia is also 28
	making the R-index to be 22. If he scores 0 against
	Australia then the R-index is 51. For Rahul:- 49.55 and
	between 0-22 against Pakistan. So minimum he scores
	against Pakistan anywhere between 0-22 Lets assume he
	scores maximum 22, still his R-index will be $55-22 = 33$
	and if he scores 0 then 55 Similarly vuyrai's R-index
	varies between 47-87 Hence any of these three can have
	minimum R-index
20	M index can be calculated only for two players :
29.	$S_{1} = 50 \ \text{R} \ \text{P} \ 40$
	5- 50 & K +7.
20	Late cay Yuurai secred 0 against couth Africa Than his
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	Expert In	Labour	Health
	Africa	0	At least 1*
	America	1	At least 1 ^{\$}
Continent	Australasia	1	1
	Europe	1	1
	Total	3	6

Population Studies	Refugee Relocation	Total
At least 1*	At least 1*	4
At least 1 ^{\$}	At least 1 ^{\$}	8
1 + 1 (given Mike & Alfans)	1	5
1	1	4
6	6	21

It can seen that four Americans and one African are still there to be allotted in various expertise areas and out of those five persons, two are to be put in Health, one is to be put in Population studies and two are to be put in Refugee relocation. *It can be seen from the table that one more expert is there from Africa which will be put in one of the three categories except Labour. \$ It can be further seen from the table that there are 4 more experts from America, which will be put in three categories of Health, Population Studies and Refugee Relocation as per the information given in the further questions, with a condition of maximum limit being 3 from any continent to a particular area.

Now each of the questions is to be taken. independently. If Ramos is the lone American expert in Population, this implies the remaining four experts from America have to be put two each in Health and RR. Thus in totality there will be three experts in these areas from America, thus 3rd option is not true.

Out of the four Americans, if you try to put them in other areas except refugee relocation even then only 3 persons (two in health and one in population) can be allotted i.e. at least one person from America besides Alex is minimum there. On the higher side it can be maximum two because a maximum of three persons can be taken from a continent for any particular area. Thus 3rd option is the answer

34.

35.

Table – I. The table giving about the 1st two rounds Goal First Point Team Go Seco als Roun nd S S For d Roun Agai nst d German 3 (1,0)(2,1)6 1 2 0 (1,0) (1,0)Argenti 6 na 2 (5,1) 5 (0,1)Spain 3 Pakista 2 1 (2,0)(0,1)3 n New 6 (0,1)(1,5)0 1 Zealand South 4 (0,2)(1,2)0 1 Africa

Results of the first two rounds:

Germany beat Spain and South Africa by (1, 0) and (2, 1) respectively.



Spain beat New Zealand by (5, 1) and lost to Germany by (0, 1).Argentina beat New Zealand and Pakistan by (1, 0) and

(1, 0) respectively. Pakistan beat South Africa by (2, 0) and lost to Argentina

by (1, 0).

Results of the third round:

The third round matches played were Spain Vs Pakistan, Germany Vs New Zealand and Argentina Vs South Africa which were all draws. Table – II

The table gives the information about the 4th and the 5th rounds

	Games	Won	Lost	Won	Lost to		MS = 0.45.
	Played			Against		40.	The milkman has 100 litres of mixture. When he sells 25
	2	1 (3,0)	1	Argentina	Pakistan		litres of the mixture, he is removing $\frac{1}{4}$ of the milk and $\frac{1}{4}$
	2	-	2	-	Spain, Ge		of the water in the original mixture. So, he is left with 15
	2	2	-	Argentina,	-		litres of water and 60 litres of milk. He now adds 25 litres
				South			of water to the mixture. The new mixture will now
				Africa			contain $(15 + 25) = 40$ litres of warer and 60 litres of
	2	2 (1, 0)	-	New	-		milk. Thus, the required ratio is 2 : 3.
		and (1, 0)		Zealand,		41.	In a 100 metres race, when Karan runs 100 metres, Arjun
				Germany			runs 90 metres. Since time is constant, the ratio of
	2	-	2		Pakistan, S		distances is equal to the ratio of speeds. So, the ratio of
					Africa		speeds of Karan and Arjun is $100:90 = 10:9$. In the
	2	1 (3,0)	1	New	Spain		second case, Karan will have to run 110 metres to
				Zealand			complete the race. In this case, the ratio of distances
				at			traveled will be equal to the ratio of speeds $10:9.80$,
	Refer Ta	able I – Optior	n1.	(1 st Round)			= 00 matras i.e. he needs to cover 1 matra to complete
36.	Refer T	able I – Opt i	ion 4.				= 99 metres, i.e., he needs to cover 1 metre to complete the race In other words. Karan heats Ariun by 1 metre
37.	If we go	by options, tal	king 1 st oj	ption as Argenti	ina, we	12	This problem is the same problem as finding the number
	can see	that the total po	oints scor	ed by Argentina	are $6(1^{st})$		of diagonals of a n-sided polygon stated in different
	2 rounds	s) + $1(3^{10} \text{ round})$	$(4^{m}) + 0 (4^{m})$	and 5 th rounds)	= 7.		words. We know that the number of diagonals is ${}^{n}C_{2} - n$
	Similarl	y we can see th	hat the tot	al points scored	by		So n is simply calculated by ${}^{n}C_{2} - n = 28/2 = 14$. Check
	German	y are $6(1^{-2} 2 ro)$	unds) + 1	$(3^{-1} \text{ round}) + 3$	$(4^{-1} \text{ and } 5^{-1})$		with the options it fits for $n = 7$.
	rounds)	= 10. And we	can see th	at the total poin	tts scored		(None of the other options is a divisor of 14.)
	by Spair	1 are $3(1^{\circ} 2 \operatorname{rot})$	1nds) + 1((3 round) + 0	4 and 5		
	to consid	= 10. S0 Algel der the goal dif	forance o	of Cormony and	Spain For	43.	If the first 11 terms have the same sum as the first 19
	German	v.		of Oermany and	Span. For		terms, then the sum of terms 12 to 19 (8 terms) must be
	Goals fo	y. or: $3(1^{\text{st}} 2 \text{ round})$	(1) + 0 (4)	th round) + 3 (5 ^t	h round) =		zero. This means that the 15^{th} term is just negative and
	6			104114) 1 5 (5	round) –		16 th term is just positive – or vice-versa.
	Goals as	painst: 1(1 st 2 r	(ounds) +	$1(4^{\text{th}} \text{ round}) + 0$) (5 th		Or that zero lies between the 15 th and the 16 th terms.
	round) =	= 2. Hence goal	l differen	ce = 4.	×-		For 30 terms, 15 will be negative and 15 will be positive.
	Now for	Spain:					So their sum will be zero.
	Goals fo	or: $5(1^{\text{st}} 2 \text{ round})$	is). Goals	against: 2(1 st 2	rounds).	44.	Suppose the distance the man travels is D km and he take
	This is g	giving a goal di	ifference	of 3. But since S	Spain has		time T hours when he travels at 10 kmph. When he
	won bot	h its 4 th and 5 th	round m	atches, so there	has to be		travels at 15 kmph he travels in $(1 - 2)$ hours. So, D =
	a minim	um goal differ	ence of 1	in both the mat	ches. So		101 = 15(1 - 2). Solving for 1 gives $1 = 6$ nours. If he
	goal diff	ference in case	of Spain	has to be at leas	st 5. So		reaches at 1:00 p.m., he must have left 6 hours earlier,
	Spain m	ust have been t	the other	team that qualif	ied. So		cover the distance D in 5 hours. So $D = 10 \times 6 = 55$ or S
	answer 1	is 3 rd option.					= 12 kmph
20	A (1	1 1 2	·	a •		45.	If there are <i>n</i> members in S_1 in January and <i>b</i> members
38.	As per t	ne explanation	given for	the previous qu	lestion,		are added each month, then in July, there are $n + 6b$
	we can s	see that Argent	f Cormon	of face. we have	vell Now		members. If there are <i>n</i> members in S_2 in January, then
	walook	into the cases of	f Dolvictor	y and Span as v	well. Now		there are nr^6 members in July. Since the number of
	Pakistan	are $3(1^{\text{st}} 2 \text{ rou})$	$(nd_s) \perp 1($	3^{rd} round) ± 6 (4^{th} and 5^{th}		members in S ₁ and S ₂ in July is the same, $n + 6b = nr^6$.
	rounds)	= 10 So we have	$\frac{1}{100}$	k for goal differ	ence of		Substituting for $b = 10.5n$, we get $64n = nr^6$ or $r^6 = 64$.
	Pakistan	= 10.00 went		a for gour union			Solving this equation yields $r = 2$.
	For Paki	istan:				46.	If $x = y = 0$, then $x + y = xy = 0$. Also, if $x = y = 2$, then x
	Goals fo	or: 2(1 st 2 round	(1s) + 1 (4)	th round) + 1 (5t	h round) =		+ y = xy = 4.
	4.	、	· - · ·			47.	Substitute the values of x to get $f(0) = p$ and $f(1) = p - 3$.
	Goals ag	gainst: 1(1 st 2 r	ounds) +	$0(4^{\text{th}} \text{ round}) + 0$) (5 th		Now if $f(0)$ and $f(1)$ are of the opposite signs, then $f(0)$ is
	round) =	= 1. Hence goal	l differen	ce = 3. Since it i	is less than		positive, and $f(1)$ is negative.
	the mini	mum goal diff	erence of	Spain, hence St	nain must		This will happen if p is more than 0 and less than 3.

have finished at the top of the pool after five rounds of matches. So answer is 3rd option 39. Ľ' Μ 6 L 2.1 Μ In the above diagram, MM' = 1.8 and SS' = 0.9. It can be shown that the three triangles, TLL', TMM' and TSS' are similar to each other. In triangles TSS' and TMM', SS'/MM' = TS/TM = $0.9/1.8 = \frac{1}{2}$. So, TM = 2TS. In triangles TMM' and TLL', MM'/LL' = TM/TL = 1.8/6. Substituting for TL = 2TS + 2.1 and solving yields TS =45. kman has 100 litres of mixture. When he sells 25 the mixture, he is removing 1/4 of the milk and 1/4 ater in the original mixture. So, he is left with 15 water and 60 litres of milk. He now adds 25 litres to the mixture. The new mixture will now (15 + 25) = 40 litres of warer and 60 litres of nus, the required ratio is 2:3. metres race, when Karan runs 100 metres, Arjun metres. Since time is constant, the ratio of s is equal to the ratio of speeds. So, the ratio of of Karan and Arjun is 100:90 = 10:9. In the case, Karan will have to run 110 metres to e the race. In this case, the ratio of distances will be equal to the ratio of speeds 10:9. So, aran runs 110 metres, Arjun will run (110 x 9)/10 etres, i.e., he needs to cover 1 metre to complete In other words, Karan beats Arjun by 1 metre. blem is the same problem as finding the number nals of a n-sided polygon, stated in different We know that the number of diagonals is ${}^{n}C_{2} - n$. simply calculated by ${}^{n}C_{2} - n = 2\overline{8} / 2 = 14$. Check options it fits for n = 7. f the other options is a divisor of 14.) st 11 terms have the same sum as the first 19 hen the sum of terms 12 to 19 (8 terms) must be his means that the 15th term is just negative and n is just positive – or vice-versa. zero lies between the 15th and the 16th terms. erms, 15 will be negative and 15 will be positive. sum will be zero. the distance the man travels is D km and he takes ours when he travels at 10 kmph. When he tt 15 kmph he travels in (T - 2) hours. So, D = 5(T-2). Solving for T gives T = 6 hours. If he at 1:00 p.m., he must have left 6 hours earlier, a.m. If he wants to reach at 12 noon, he must e distance D in 5 hours. So, $D = 10 \times 6 = 5S$ or S ıph. are n members in S₁ in January and b members ed each month, then in July, there are n + 6brs. If there are n members in S₂ in January, then $re nr^6$ members in July. Since the number of rs in S_1 and S_2 in July is the same, $n + 6b = nr^6$. iting for b = 10.5n, we get $64n = nr^6$ or $r^6 = 64$.

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	In 2 min distance covered is $2 * \pi r / 4 = \pi r / 2$		them meaningful. So they are ruled out. <i>Prowled</i> will not
	In 4 min distance covered is $4 * \pi r / 8 = \pi r / 2$	-0	make sense in this context.
	So in total of 7.5 min, a distance of $4*\pi r / 2 = 2\pi r$ or 1	78.	The statement given is neither <i>devious</i> (indirect) nor
	round is covered. Time taken to cover the next round will		<i>tactful</i> . Between <i>blunt</i> and <i>pretentious</i> , the former is
	be $8 + 16 + 32 + 64 = 120$ minutes.		definitely better because it implies the idea of lack of tact
	So ratio of times taken is $120 / .5 = 240 / 15 = 16$: 1	70	The dues will increase with the accumulation of interest
	but it will be the same for any two successive rounds	13.	over unpaid amount and fines imposed thereon
66	Using the values of a_1 , a_2 and the expression for a_1 , the		Obviously, taxes are not imposed on unpaid taxes nor is
00.	given series is $81 \ 33 \ -19 \ -100 \ 33 \ -81 \ 33 \ 19 \ 100 \ 33$		principal in any way related to accumulation of dues.
	81.33, -19, When the terms of this series are added, it	80.	Normally, bank accounts and royalty funds are attached,
	is seen the the sum of every 6 terms, i.e., terms $1-6$,		i.e. rendered immune from any kind of operation in such
	terms $7 - 12$, terms $13 - 18$, and so on, is 0. The sum of		cases. Impounded is used often in cases involving any
	the first 6002 terms is the same as the sum of 1000 sets of		physical property like vehicles etc. The words <i>closed</i> and
	6 terms and the last two terms. The last two terms are		<i>detached</i> are not meaningful in the present case.
	81.33 and -19 . Since the sum of each set of 6 terms is 0,	82.	<i>Smashing</i> an auto in such a case will yield nothing.
	the sum of the first 6002 terms is $(1000 \times 0) + 81.33 - 19$		<i>Frozen</i> too does not make much sense, it is much more
(7	= 62.33.		applicable to bank accounts etc. <i>Dismantling</i> and <i>setzing</i>
07.	Any $a + b$ will always be divisible by $a + b$. So $15^3 + 22^3$ will always be divisible by $15 + 22 - 28$		the dept, will better gain by seizing and selling it rather
	So $15 + 25$ will always be divisible by $15 + 25 = 56$.		than dismantling it <i>per se</i> . (and selling it in pieces later)
68	In order to reach point B from point A we have to take 3	83.	Options 2 and 4 are possible candidates, out of which the
00.	North steps and 5 West steps.		latter is the better one because it is a wrong-doer we are
	Any path, say for eg, the corner path N N N W W W		talking of, and not a wronged person, which option 2
	W is an arrangement of these 3 Ns and 5 Ws.		indicates.
	A total of 8! / (3! * 5!) arrangements are possible.= 56	84.	B should have been " pleaded guilty to". D should
69.	Let us assume that the outer circle had a radius $= 8$.		have been "sentenced to"
	So circle C1 will have a radius = 2. Circle C2 will have a	85.	Sentence C should have read like: " she took a
	radius = 1. Circle C3 will have a radius = $1/2$		shower" Because taking shower means to take the
	Sum of areas of C1, C2, C3 is $4 + 1 + 1/4 +$	96	R should be changed to " afforts here fruit "C
	Original circle's area is $8^2 = 64$. Unshaded area to total	00.	should have read like : "Everyone complimented "
	area is $(64 - 16/3)/64 = (1 - 1/12) = 11/12$	87.	Option 1 is superfluous as it is full of many excess words.
70.	We need to check with different values of <i>x</i> .		Option 2 is ungrammatical and so is true of option 4.
	If $x = 2$, $u = 1 - 6 + 12 = 7$. 2^7 is not 256.	88.	<i>Estimated at</i> is used in a financial sense, so option 3 is
	If $x = 4$, $u = 4 - 12 + 12 = 4$. 2^4 is 256.		ruled out. Option 1 is ungrammatical and so is opt 2.
	So the unique solution is $x = 4$.	90.	The phrase <i>made a bolt</i> does not make any sense.
71.	The color for the first strip has 4 choices. Subsequently	<u>91.</u>	It should have been " pass marks"
	So total no. of choices is $4 \times 3^5 - 12 \times 81$ hence 1^{st} ont	92.	In the fourth option, the intended meaning of <i>fallout</i> is
72.	Suppose S is the side of the cube. Then, $DF = AG = CE =$		Hence the answer
	$S\sqrt{3}$, since these are the longest diagonals of a cube.	93	E is in logical continuation of B. The two neighbours
	These three diagonals are the sides of an equilateral	201	being discussed in A are the two mentioned in D only.
	triangle. In an equilateral triangle, the circumradius is		therefore D-A is a logical pair.
	$(1/\sqrt{3})$ times the side. So, the circumradius of the	94.	The combination D-B is given on platter. But we cannot
	equilateral triangle is $(1/\sqrt{3})(S\sqrt{3}) = S$.		piggyback on it as it is present in all the options.
73.	Consider the square made by the two radii and the		Considerable help is provided by B-A as A certainly
	tangents to the circle which form the right triangle. It will		serves to amplify the idea given in B. Of the two options
	have a diagonal of length $-2\sqrt{2}$.		2 and 4, the latter is a bit better because of a good general
	The point where the diagonal is intersected by the circle is at a distance equal to $2x^2$. 2 from the vertex of the two	05	A bit of CK can beln you here. Septence D supports the
	at a distance equal to $2\sqrt{2} - 2$ from the vertex of the two walls. Let the radius of the small circle be r	93.	idea given in line F and F explains B. So B-D-F is a good
	Now the above distance is also equal to $r + r\sqrt{2}$		combination. B is by all accounts, a good opening
	So $r + r\sqrt{2} = 2\sqrt{2} - 2$ Or $r = (2\sqrt{2} - 2)/(\sqrt{2} + 1)$		comment and CA is not at all a logical pair, which leaves
	$= (2\sqrt{2} - 2)/(\sqrt{2} + 1) * (\sqrt{2} - 1)/(\sqrt{2} - 1)$		us with option 2.
	$=(2\sqrt{2}-2)*(\sqrt{2}-1)/((2-1))\Rightarrow 6-4\sqrt{2}.$	96.	In this and the following question, you are supposed to
74.	If a place is as peaceful as a resort hotel out of season, the		distill the essence of the paragraph and present the bare
	corridors cannot be anything but <i>empty</i> . Hollow is ruled		soul, without excluding anything essential to the overall
	out because we most often use it in the sense of		meaning. The rest of the choices given lack one or the
	importance of something. For a physically vacant place,		what is said in the para
	the preferred word is <i>empty</i> .	97	The rest of the choices given lack one or the other thing in
75	If people tells to each other in law witch of actions of		terms of meaning, or misrepresent/ distort what is said in
/5.	in people talk to each other in low-pitched voices, they cannot be <i>stentorian</i> or <i>loud</i> (the two are synonyms)		the para.
	<i>Faded</i> is out of question because it does not make any	98.	Refer to the last line of the 4 th para. The rest of the
	sense.		options are not justifiable in the context of the article.
76.	If a person is led into scowling, his temper has obviously	99.	Refer to the last lines of the 6^{in} and the 4^{in} paras.
	been set off.	100.	Refer to the first line of the 4 th para. Even the rest of the
77.	Both strolled and stormed need some preposition to make		examples given support this contention only that in



	reality, the industry has not produced anything radical so far in the name of change.	116.	Options 1, 2 and 4 indicate their ferocious nature, while 3 does not.
101.	Last para, read it carefully – the opening comments and	117.	Refer to the last two lines of the very first paragraph.
	the related example.	118.	Options 4 and 2 actually support the hypothesis. Option 1
102.	The second line of the penultimate paragraph hints at this		is based on pure hunch. The Tsavo lions' proposed
	thing only.		similarity with the Pleistocene lions implies that the two
103.	Please refer to the 4 th line of the very first paragraph.		groups should be alike as possible, but if the difference
104.	Please read carefully the 5 th para from the top.		mentioned in Option 3 is true it obviously creates doubts
105.	Options 2 and 3 are fully justified in the light of the 5 th		about the truth of the theory.
	and 6 th paras from the top. The 4 th option is also	119.	E supports the efficiency idea given in C. D is obviously
	justifiable in the light of the 5 th paragraph. There is no		commenting on efficiency. Hence the answer.
	support whatsoever for option 1.	120.	C-B make a good pair because both mention pyramids. A
106.	Refer to para 6, line 1.		is a logical culmination because it contrasts well with the
107.	Please read the 3 rd para carefully.		preceding lines.
108.	Refer to the first paragraph.	121.	In option 1, the idea of research giving us definitive
109.	Refer to the 1 st line of the penultimate para.		answers is unnecessary as it is not supported by the para.
110.	Please read the 4 th para.		Options 3 and 4 are not duly representative of the
111.	Para 3, last few lines		contents of the paragraph.
112.	Para 1, last two lines.	122.	Only option 4 captures the meaning in full measure.
113.	Please refer back the last few lines of the 2 nd para.	123.	Option 3 talks of <i>exacerbating injustice</i> , which is the
114.	Refer to the lines "there is no need" and "the vast		same idea conveyed by compounded injustice mentioned
	majority" from the last paragraph.		in the para. Option 3 is preferable to option 1 because the
115.	Please refer back to the 3 rd paragraph. Option 2 is not		latter omits many significant details like the protest by the
	correct because it is a secondary comment made by		local communities. Option 4 is talking of only raw
	another scientist.		materials while there are other concessions also.

