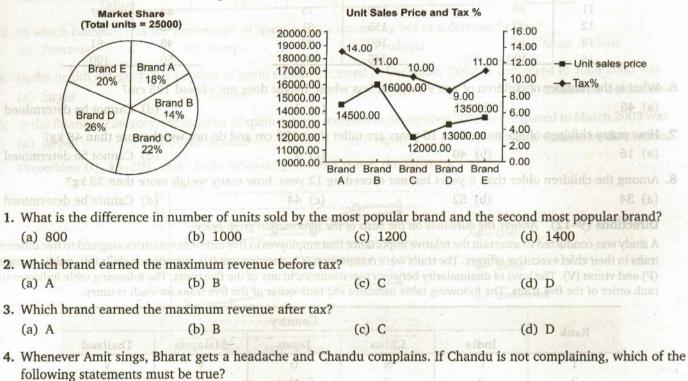
Data Interpretation & Logical Reasoning

Directions (1–3) Read the graph carefully and answer the questions that follow.

One of the graph below represent the market share of five different brands of bikes sold in a particular city. The total number of bikes sold was 25000.

The other one shows the unit sales price and the Tax the brand is subjected to. Tax is calculated on the sales price.



- (a) Amit is singing and Bharat has a headache.
- (b) Bharat has a headache but Amit is not necessarily singing.
- (c) Amit is singing, but Bharat does not necessarily have a headache.
- (d) Amit is not singing.
- 5. Atul will eat the apple if Bhanu does not cook. Based only on the information above, which of the following must be true?
 - (a) Atul will not eat the apple if Bhanu cooks
- (b) If Atul did not eat the apple, Bhanu did cook
- (c) If Atul eats the apple, then Bhanu did not cook
- (d) If Bhanu does not cook, Atul will not eat the apple

Directions (6-8) Answer the questions on the basis of the information given below.

Table A below provides data about ages of children in a school. For the age given in the first column, the second column gives the number of children not exceeding that age. For example, first entry indicates that there are 9 children aged 4 years or less. Tables B and C provide data on the heights and weights respectively of the same group of children in a similar format. Assuming that an older child is always taller and weights more than a younger child.

	Table A		Tab	le B	Table C	
ars, T	Age (year)	Number	Height (cm)	Number	Weight (kg)	Number
	4	9	115	6	30	8
	5	12	anage 9 1, 120 1	1110000	32	13
	6	22	125	24	34	17
	7	35	ello) and an 130 p si	36 0 0 0	36	28
	12 10 8 11 18 C	a mi42 or asslid 1	o abrand tre 135 b	1 10 45 de 190h	an an 38 mol	33
	9	48	140	53	40	46
	10	60 60 x 8 x 1	ranc241subjected to.	62 62	cooling as a 42 sta	54
	11	69 de xa	T bas solid as150 piets	75	44	67
	12	77	155	81	46	79
	13	86	160	93	48	91
a site.	14	100	165	100	50	100

6. What is the number of children of age 9 years or less whose height does not exceed 135 cm? (a) 48 (b) 45 (c) 3 (d) Cannot be determined

7. How many children of age more than 10 years are taller than 150 cm and do not weigh more than 48 kg?
(a) 16
(b) 40
(c) 9
(d) Cannot be determined

8. Among the children older than 6 years but not exceeding 12 yeas, how many weigh more than 38 kg?
(a) 34
(b) 52
(c) 44
(d) Cannot be determined

Directions (9–12) Answer the questions on the basis of the information given below.

A study was conducted to ascertain the relative importance that employees in five different countries assgined to five different traits in their chief executive officers. The traits were compassion (C), decisiveness (D), negotiation skills (N), public visibility (P) and vision (V). The level of dissimalarity between two countries to any of the five traits. The following table indicates the rank order of the five traits. The following table indicates the rank order of the five traits for each country.

Rank	Contraction of the second		Country		States and States
Kalik	India	China	Japan	Malaysia	Thailand
omparines, which of a	C C C C C	N	D	V	vagara v
2	P	С	N	D	C C C
allib al basis more 3 more the	Inman N	P	С	P	N
CAT (Asm) we have collect	spirals V look of the	D	otos V ester	Charles	P
ite a sizale paper. Upto a pr	artaties den as to ma	has to y upsed	P	and all N man l	D

CAT	r ver created sont ret of sover paperation observer.com
9	Which of the following countries is least dissimilar to India? India? India? India? (a) China (b) Japan (c) Malaysia (d) Thailand (e)
10.	. Which amongst the following countries is most dissimilar to India? The second later added dial of the second dial of the second later added dial of the second
11.	Which of the following pairs of countries are most dissimilar? Which of the following pairs of countries are most dissimilar? (a) China and Japan (b) India and China (c) Malaysia and Japan (d) Thailand and Japan

-

12. Three of the following four pairs of countries have identical levels of dissimilarity. Which pair is the odd one out? (c) Thailand and Japan (d) Japan and Malaysia (a) Malaysia and China (b) China and Thailand

Directions (Q. 13-15) Answer the questions on the basis of the information given below.

Spam that enters our electronic mailboxes can be classified under several spam heads. The following table shows the distribution of such spam worldwide over time. The total number of spam e-mails received during December 2002 was larger than the number received in June 2003. The total number of spam e-mails received during September 2002 was larger than the number received in March 2003. The figures in the table represent the percentage of all spam e-mails received during that period, failling into those respective categories.

	Category	Sep 2002	Dec 2002	Mar 2003	Jun 2003	the actin
and mother while	Adult asyswal	zyab 38 no zero	of the CCO activ	19 (ovni)	and parents' h71se the	their gra
ib vait bins age	Financial	25	30 181 30	15TRQ 1371 01 110	gen doi 45 ov lo bne de	
	Health	11	19 10050	ong wa 2 their va	on 12 event 81. How	
	Internet	5 gyab	3	10	6 avet	
	Products	ennot b 8 determe	0 (6) 7	10	11 11 11 111	ost Bia
	Scams	5	6	11	2	
	Others	13001 as:	avewig2 loop at o	(9 + p = (8 where)	lation, $2at^2 \in \mathbf{F} p + 1)$. The equ
 In which cat (a) Financia 	egory was the per	rcentage of spam				
		b) Scams	(c) Pr	roducts		
4. In the health	a category, the nu	mber of spam e-r	nails received in	December 2002	as compared to June 2	Di mar .
(a) larger	(b) smaller	(a) an			
			(c) eq	•	(d) Cannot be d as compared to March	etermine
Directions (Q. 16–20) Refer	to the following on	ranh and answer +	cother they word	(d) Cannot be d	d starter b
Directions (to the following g	raph and answer t	he questions.	ic employs Ravi and to t is Ram than Ravi?	work, b
Directions (Q. 16–20) Refer	to the following g	raph and answer t	he questions.	ic employs Ravi and to it is Ram than Ravi?	work, b
Directions (40	to the following g	raph and answer t	he questions.	ie employs Ravi aud to it is Ram than Ravi? %	work, b efficien (a) 50
	40 40 35	to the following g	raph and answer t	he questions.	e employs Ravi and to t is Ram than Ravi? % 1 can be used sidter to	work, h efficien (a) 50
	40 35 30 25	to the following g	raph and answer t	he questions.	te employs Ravi and to t is Ram than Ravi? h for the used cither to mp is 10 m ² , min teo7	work, h efficien (a) 50° (Appunt the pun
	45 40 35 30 <u>A</u> 25 20	to the following g	raph and answer t	he questions.	is employs Bavi and to it is Ram than Ravi? (a can be used sider to up is 10 m ² min too valuetes to 01 divestor langes and 1 divestor	work, b efficien (a) 50 (a) 50 the pure the pure
	40 35 25 20 15	to the following g	raph and answer t	he questions.	at is Ram than Ravi and to it is Ram than Ravi? (a can be used ether to up is 10 m / ma too – timutes to 60 the sala? – m / min	work, b efficien (a) 50 (a) 50 the pure the pure
	45 40 35 30 25 20 15 10	to the following g	raph and answer t	he questions.	or bus tva Ram to a line Favi and the Ram than Ram? a can be used citation to a line of the cit	work, b efficien (a) 50 (a) 50 h(Å PUITH the pui more n (a) 50
	40 35 25 20 15	to the following g	raph and answer the	he questions.	- Cost - Sales - Employees	work, h efficien (a) 50 (a) 50 the pur the pur (a) 50 (a) 50
	45 40 35 25 20 15 10 5	to the following g	raph and answer to	he questions.	or bus tva Ram to a line Favi and the Ram than Ram? a can be used citated to a line of the cita	work, h efficien (a) 50 (a) 50 the pur (b) pur (a) 50 (a) 50
proving objection (faithfunction (faithfunction) (faithfunction) (faithfunction) (faithfunction) (faithfunction)	45 40 35 25 20 15 10 5 0 Jar	to the following gr	Jun Sep	he questions.	- Cost - Sales - Employees	work, h efficien (a) 50 (a) 50 the pur (b) pur (a) 50 (a) 50
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organy chosent frainly freeds nin ("2: 3 and " ("2: 4 and "	45	to the following gr	Jun Sep	he questions.	or bus ty a read of the read o	work, b efficien (a) 50° (a) 50° inore n (a) 50 repetiti (a) 49 (a) 49
Which month (a) Septembe	45	to the following gr	and answer the second s	he questions.	 Cost <li< td=""><td>work, b efficien (a) 50° (a) 50° indre n (a) 50 (a) 50 repetiti (a) 49 (a) 49</td></li<>	work, b efficien (a) 50° (a) 50° indre n (a) 50 (a) 50 repetiti (a) 49 (a) 49

user created content at www.educationobserve 9. Which of the following countries is least dissimilar to Ir	18. In which month is the percentage increases in another shore
(a) China (b) (b) Japan (b) (c)	(c) Malaysia (d) (d) Thailand (b)
10. Which amongst the following countries is most dissimil	19. In which month is the total increase in the seibnl of ra
(a) China VeM (b) (b) Japan	(c) Malaysia (u) manand
11. Which of the following pairs of countries are most dissi(a) China and Japan(b) India and China	milar? Word doi and the evolution on tark animuta 02. Assuming that no employee left the job how we have a set of the set
12. Three of the following four pairs of countries have iden(a) Malaysia and China (b) China and Thailand	(c) Thailand and Japan (d) Japan and Malaysia
Directions (Q. 13–15) Answer the questions on the basis	s of the information given below.

Spam that enters our electronic mailboxes can be classified under several spam heads. The following table shows the distribution of such spam worldwide over time. The total number of spam e-mails received during December 2002 was larger than the number received in June 2003. The total number of spam e-mails received during September 2002 was larger than the number received in March 2003. The figures in the table represent the percentage of all spam e-mails received during that period, failling into those respective categories.

moderate boin	Category	Sep 2002	Dec 2002	Mar 2003	Jun 2003
andmother while	Adult	e .avab .38 no est	vitos 033 adu lo	ono ai 19 lavai	their grandparents").71se, the
	Financial	25 biby	111 Jul 30 1518 21	oft to CRP paret	
	Health	11	19 100100	ong wa z their va	nothing on 12 evenice1) if ow
	Internet	5 msb.	(d) 3	10	(a) 36 days 6
	Products	nnot b.8 determin	0 6 7	10	(c) 29 days 11
	Scams	5	6	11	23. The equation, $2a^2 \in F + 1$)
	Others	13001 and	2 por 2	+ p = (8 where)	
(a) Financia	veat's purchase	ercentage of spam (b) Scams	(c) P	roducts	asing rate? (d) None of these as compared to June 2003 was
(a) larger	reacegory, are n	(b) smaller	(c) e		(d) Cannot be determined
15. In the finance	ial category, the	number of spam e	-mails received in	n September 200	2 as compared to March 2003 was
(a) larger		(b) smaller	(c) e	qual no abox b	(d) Cannot be determined
Directions ((Q. 16–20) Ref	er to the following s	graph and answer	the questions.	work, he employs Ravi and tog efficient is Ram than Ravi? (a) 50%
	40 35				26 Anying can be used either to fi
If puttip nearly 12	and the second		*********	ea ferrito strotted	the pump is 10 m 2 min teo 💭
	25			an to empty The	Sales
	20	m?/min	24.60.45	m 0.0 ((a) 50 m ³ /min (b
	15 10 5			plat ind see ne	- Employees 27. How many integers grouped repetition of digits as allowed?
	-+0 • • • (4), 376 • •	Jan Mar May	Jun Sep	Nov	(a) 499 and base 5 potention of a
16. Which mont (a) Septemb		t profit per emplo (b) July		anuary	(d) March
17. Which mont	h records the hig	ghest profit?	(d) 12 (d) 12		(c) 216

18	B. Unewhich month is	the percenta	geeincreas	sin sales vol	er Cra	esales two mont	he hefor	the history?
	(a) March	(6) в (6) Septemb	er	(0) July	is beior	(d) May
19	In which month is	the total inc	ease in the	cost highest	as c	ompared to the o	ost two	
	(a) March March	r (b) (b)	Septemb	eralaM (c)	(c) July	USELWU	(d) May
20	. Assuming that no	employee left	the job, he	ow many mor	re pe	ople did the com	nanu ta	ke on in the given period?
	(a) 4600	(b) (b)	5100	(c) Malay	(c)	5800	pany ta	(d) 6400
Ŷt	hir is the odd one ou	Rome, then B Rome Which D		of cool	(D)			Amir will
	Data will Malaysia		nd and Jaj	Sectio	on I	Lind The and		in Sumoner all in more
				Quantitative	e Ap	titude		Contraction (1) and and a second second
21.	The largest numbe						1 ic	
REW	(a) 100						115	
22.	TI D MURRIE LLE LOS AND				-			(d) 100000they do any activity together.
	their grandparents' sending an end of v nothing on 12 even	house, they i	nvolved in t to their p	one of the tw arents stated	wher	they did nothing	g. Out o	at they do any activity together. at they do not undertake both of the days that they stayed at ever, their grandmother while on 24 mornings and they did
	(a) 36 days					14 days		
	(c) 29 days			PND 7 A		Cannot be deten		
23.	The equation, $2x^2$.	+ 2(p + 1)x +	p = 0, whe	ere p is real, a	alway	ys has roots that a	are	
	(a) Equal(c) Irrational				(b) (d)	Equal in magnin Real	ude but	opposite in sign
	Ram Kumar buys e 20 years, he finds th purchased by him in	at the total va	lue of the c	ertificates of certificates pu	valu rcha	te exceeding the sed by him is ₹ 83	last yea 000. Fir	ar's purchase by ₹ 300. After and the value of the certificates
	(a) ₹ 4900	(b)	₹ 6900		(c)	₹ 1300		(d) None of these
	efficient is Ram that	n Ravi?	her they w	ork for anoth	er 1:	2 days and the wo	f the wo ork gets	rk. To help him complete the completed. How much more
	(a) 50%	(b)	200%	Anna 1997 - 1997	(c)	60%		(d) 100%
	the pump is 10 m ³ /1 more minutes to fill	min higher that the tank that	an its filling 1 to empty	g capacity. Wł it?	hat is	the emptying cap	pacity of	n ³ . The emptying capacity of f the pump, if pump needs 12
	(a) 50 m ³ /min	(b)	60 m ³ /mir	L	(c)	45 m ³ /min		(d) 90 m ³ /min
27.	How many integers repetition of digits i	, greater than s allowed?	999 but n	ot greater tha	an 4	000, can be form	ed with	the digits 0, 1, 2, 3 and 4, if
	(a) 499	(b)	500		(c)	375		(d) 376
28.	How many five digit any of the digits get	positive integring repeatin	g?		3 ca	n be formed using	the dig	its 0, 1, 2, 3, 4 and 5, without
	(a) 15			anal (a)	(b)			a side a side and
	(c) 216				(d)	120		

29	. There are four boxes. Ea	t at www.educationobs ach box contains two balls: ability of drawing at least o	one red and one blue. You dra	w one ball from each of the four
	(a) $\frac{1}{2}$	e Comprehension and		IOK, The lang ferocously while the
	(c) $\frac{1}{16}$	1 set of three quertions. Choos merchana (d)	(a) —	Directions (41–50) The p each question
30	. Which of the following s	tatements is not somet?		e arroi diruce Robbins's excellent ar
bas	(a) $\log_{10} 10 = 1$	a of groups of basis sloped y		empirical sense of political $c > 1$
	(c) $\log_{10} 10 = 1$		(d) $\log (1 + 2 + 3) = \log (2 + 3)$	$1 + \log 2 + \log 3$
31	. The sum of the number of	of factors of the number N	and N^2 is 34. How many such q	distinct numbers <i>N</i> < 150 exist?
	(a) 6 to enhour interest	(b) 2 bondog vind	ter the tix burners 4. (c) de th	appear unwilling & (b) out
32.	The sum of 3rd and 15th the same progression. Th	elements of an arithmetic p en which element of the se	progression is equal to the sum o eries should necessarily be equa	f 6th, 11th and 13th elements of l to zero?
	(a) 1st	(b) 9th	(c) 12th	(d) None of these
33.	The function $f(x) = x - x $	2 + 2.5-x + 3.6-x , v	where x is a real number, attains	a minimum at
	(a) $x = 2.3$	(b) $x = 2.5$	(c) $x = 2.7$	(d) None of these
34.	The remainder, when (15	523 + 2323) is divided by	10 10	cosmopolitan cause. This ca
			(c) 0 the following the state of the state o	seek to develop ideal and against the com 81 (b) iso
35.		ts <i>S</i> by 20 m and <i>N</i> by 40 n how many metres will <i>S</i> be	A MO	of 100 m with exactly the same
	(a) 11.11 m	(b) 10 m	(c) 12 m bos bou blue bou	
	There are three different of	ese questions are based on the cable channels namely Ahea .uck, and 30% to Ahead. 209	e following information: id, Luck and Bang. In a survey, i % of viewers respond to exactly t	t was found that 85% of viewers wo channels and 5% to none.
36.	What percentage of the v	iewers responded to all thr		prominence of individual r
	(a) 10	and non-intervention. They	(6) 19	rovig edresnictions of the UN Charn formally prioritised the 'stat
	(c) 14 non to stdyn faul	h make the universal indivit		to be replaced by a new set
37.	Assuming 20% respond to who watch only Luck?	o Ahead and Bang, and 16 ⁰	% respond to Bang and Luck, w	hat is the percentage of viewers
	(a) 20		(b) 10	(a) Shared fate
	(c) 16	(a) The cosinopolitan para	(1) 11 (1)	(c) Inequalities in practice
38.	A milkman mixes 20 L of w the quantity that he has se	water with 80 L of milk. Aft old. What is the current pr	er selling one-fourth of this mix oportion of water to milk?	ture, he adds water to replenish
	(a) 2:3	(b) 1:2	(c) 1:3	(d) 3:4
39.			number. Then the equation x^u	= 256 has
			(b) exactly one solution for	
	(c) exactly two distinct so	olutions for x	(d) exactly three distinct s	solutions for x
	equals	es the last digit is 1, while in	ed in base 2 notation, base 3 not exactly two out of the three case	es the leading digit is 1. Then M
	 (a) 31 A and montanique a (c) 75 	da atvay with destriction	(b) 63 a rot al valley hol	(d) enthusing that emp
	() /)		(d) 01	

(c) 75

(d) 91

Section III

Verbal Ability & Reading Comprehension

Directions (41–50) The passage given below is followed by a set of three questions. Choose the most appropriate answer to each question.

Bruce Robbins's excellent article points up the paradox of cosmopolitanism - that it seems 'perpetually torn between an empirical dimension and a normative dimension'. For Robbins, the paradox of cosmopolitanism is rooted in the limited empirical sense of political community. For genuine democracy people need to belong to the same community of fate', and there is at present little evidence of such a sense of cosmopolitan consciousness. Although leading (Western) governments make claims in support of cosmopolitan human rights established by virtue of membership of a common humanity, their practice is often limited by the 'communitarian' reality. The lack of 'shared fate' leads to inequalities in practice as governments are often reluctant to sacrifice either treasury resources or military lives in the cause of others, and citizens appear unwilling to shoulder the tax burdens involved in any potential cosmopolitan redistribution of wealth and opportunities.

Robbins suggests that it would be wrong to use the empirical limits to cosmopolitan practices as an argument against normative cosmopolitan claims. He asserts that there is 'no possibility of simply choosing the actual over the normative' and instead suggests that we should accept that the 'contradiction' exists.

A solution to the problem lies in political change which seeks 'to bring abstraction and actuality together'. A 'Left cosmopolitanism' is one that denies 'the past authority over the present' - the empirical reality that 'there is as yet little evidence of transnational solidarity' should be the justification for engagement and struggle on the side of the progressive cosmopolitan cause. This campaigning perspective is advocated by several cosmopolitan theorists who, in different ways, seek to develop ideas and mechanisms whereby global civil society can encourage and further cosmopolitan practices against the communitarian inclinations of national governments and their electorates. This article suggests that the 'cosmopolitan paradox' - the gap between universal aspiration and hierarchical practice - is not merely one of cosmopolitan 'consciousness' lagging behind an immanent cosmopolitan 'reality'. Rather, the paradox is rooted in the essence of the cosmopolitan theorists. In fact, rather than challenging existing international structures of power, there is a real danger that the cosmopolitan impulse will legitimise a much more hierarchical set of international relationships.

Whether the cosmopolitan aspiration takes the form of Robbins's call for a transnational welfare safety net or claims for the protection and promotion of a more extensive range of human rights, all cosmopolitan perspectives reflect the increasing prominence of individual rights claims in the international sphere. Leading cosmopolitan theorists seek to challenge the restrictions of the UN Charter framework, imposed by the major powers in the aftermath of the Second World War, which formally prioritised the 'state-based' principles of sovereignty and non-intervention. They argue that these principles need to be replaced by a new set of cosmopolitan principles, which make the universal individual rights of members of 'global society' the primary focus.

41. Which of the following is a part of the empirical dimension as per the passage?

(a) Shared fate

(b) Universal aspiration

(c) Inequalities in practices

- (d) The cosmopolitan paradox
- 42. Which of the following can be inferred from the passage?
 - (a) Cosmopolitan theorists seek to legitimise a much more hierarchical set of international relationships
 - (b) Cosmopolitan theorists feel that the principles of sovereignty and non-intervention need to be implemented at a global level
 - (c) The theories and conceptions of cosmopolitanism are responsible for the cosmopolitan paradox
 - (d) Cosmopolitan consciousness does not really lag behind an immanent cosmopolitan reality
- 43. The author is primarily concerned with
 - (a) exploring the cosmopolitan paradox and solutions and reasons for the same
 - (b) exploring the tussle between the advocates of nationalism and cosmopolitanism
 - (c) arguing that the cosmopolitan paradox will continue to exist
 - (d) enthusing that 'empirical reality' is not an excuse to do away with cosmopolitan aspirations

- 44. For the question word below, a contextual usage is provided. Pick the word from the alternatives given that is closest, in meaning, in the given context. Amortise It was a rude shock to witness the sober, usually docile child in a DIOK, fighting ferociously while the parents amortised his insatiable demands. (a) Servile (b) Delibrate (c) Abort (d) Decant (d) Decant 45. Five sentences are given below, labelled A, B, C, D and E. They need to be arranged in a logical order to form a coherent paragraph/passage. From the given options, choose the most appropriate option. (A) The revolution began as an attack on despotism. (B) Already by 1762 Rousseau was implying in his 'Social Contract' that there was no meaningful difference between the authority of a despot and that of a monarch. (C) As usual, regular usage soon diluted the original rigor of the expression's meaning. Wom T bas JOA 1213 (D) Montesquieu has defined its spirit as "The rule of one, according to no law". anothing a store nevel (E) Obeying no law, authority was arbitrary and its animating spirit was fear. (b) AEDCB (c) ADECB (d) None of these (a) ABDCE 46. The word given below has been used in sentences in four different ways. Choose the option corresponding to the sentence in which the usage of the word is incorrect or inappropriate. and and mayor viewidelite avel taget the Make (a) May I make so bold as to suggest that you comply to the rules of the game? (b) Thiruvan decided to make over her studio to the house where he grew up. (c) It's so strange that Aparna could not make up the meaning of the riddle. (d) The two friends fought vicariously, but their neighbours forced them to make up. 47. There are two gaps in the sentence/paragraph given below. From the pairs of words given, choose the one that fills the gaps most appropriately. Why salidgers in gled eluit to see us swel tout the act the appear that a peer that it is a second to be a secon
 - On the other hand, some writers have expressed that a few publishing houses refuse to publish women writers whose works are, as they are described, "not bold enough", that is they are not sensational enough to the market.

(b) disquiet, titillate

- (a) concern, stimulate
- (c) anxiety, manoeuvre (d) apprehension, excite
- **48.** Given below are sets of four sentences that form part of a paragraph. Arrange the four sentences so that the given sentences constitute a coherent paragraph.
 - (A) What came out was very large garland made out of currency notes?
 - (B) The unsuspecting governor opened the box in full view of the gathering
 - (C) When the RBI governor came to inaugurate the new printing press, the local unit of the BJP handed him a gift wrapped box
 - (D) There was a twist the notes were all as tattered as notes could get and second and and and and and and and a second second
 - (a) DACB (b) CABD (c) CBAD (d) DCAB
- 49. In the question, there are four sentences or parts of sentences that form a paragraph. Identify the sentence(s) or part(s) of sentence(s) that is/are incorrect in terms of grammar and usage. Then, choose the most appropriate option.
 - (A) The finding suggests some cases of the disease could be caused by the immune system running amok and attacking healthy tissues or failing to fight infection that leave people susceptible to the condition.
 - (B) The study is the first to use evidence from the human genome to confirm the long-held suspicion that the immune system plays role in the disease.
 - (C) "People have speculated about a link between the immune system and Parkinson's disease for sometime and this study suggests that a link is real", said Cyrus Zabetian.
 - (D) Parkinson's disease is caused by steady dying-off of brain cells that produce a chemical called dopamine.
 - (a) A and D
- (b) B and C
- (c) Only D

(d) Only C

- 50. In the question, there are four sentences of parts of sentences that form a paragraph. Identify the sentence(s) or part(s) of sentence(s) that is/are correct in terms of grammar and usage. Then, choose the most appropriate option.
- (A) But the 'economic miracle' came to a juddering halt at the beginning of the 1990s when the property bubble bursted.
 - (B) What followed was a decade in the doldrums and the country has never fully recovered.
 - (C) Today, it faces deflation, an ageing and shrinking population and only minimal growth.
 - (D) Economists also cited the figures as evidence that the global recovery was still facing strong headwind.

(a) C and D (b) B and C (c) B, C and D (d) A and C

Directions (51–54) Read the passage given below and answer questions that follow based on the information given in the passage.

First AOL and Time Warner announced their intention to combine. Then came Time Warner/EMI and Tribune/ Times Mirror. Even more significant, however, has been the speculation that these mergers have caused: If these transactions are consummated, a large number of additional media mergers are expected. There is even the possibility of a nightmare scenario-a wave of media mergers so large that within a decade most of our information will be supplied by perhaps six of these huge conglomerates and a fringe of much smaller firms.

It's time to ask two critical questions. Is this kind of media oligopoly what we, as a society, want? And if not, can the anti-trust laws effectively prevent the threatened merger wave? The answer to the first question is clear. We do not want a media oligopoly. The answer to the second question, however, is far less certain. We should distrust a media oligopoly because it would give undue control to a small number of individuals. This need not manifest itself in a price rise for the daily newspaper or AOL's monthly fee. Rather, it could consist of a change in editorial newspoints, a shift in the relative prominence of links to certain websites or a decision not to cover certain topics, because they are not 'newsworthy'. These problems could exist without any improper intent on the part of the media barons. Even if they are not 'newsworthy'. These problems could exist without any improper intent on the job. And in time some of these considered are may be controlled by people who are not fair or objective.

At first, it might appear that the anti-trust laws can be of little help in grappling with the issues presented by large media mergers. The anti-merger laws are commonly understood as protecting price competition, and a relatively small number of firms-to greatly oversimplify, let's say at most half a dozen-are normally thought to be enough to keep a market price-competitive. In industry after industry firms merge until there is only a handful left, and the antitrust enforcers are normally unable to do anything to prevent this. (In former years, mergers were governed by an incipiency' standard that prevented mergers and merger waves well before they would have led to very large or latery anti-competitive problems). Even if a handful of firms are enough to insure effective competition in most industries, would six conglomerate media firms be sufficient for the diversity of viewpoints necessary to democracy? Would we be reassured if they could somehow guarantee that they would sell their magazines and Internet advertisements at competitive prices?

I am hopeful that the anti-trust laws, if correctly and vigorously interpreted, are adaptable enough to meet this challenge. This is because anti-trust is not exclusively about price. It is essentially about choice about giving consumers a competitive range of options in the marketplace so that they can make their own, effective selection from the market's offerings. Consumers should be able to make their choices along any dimension important to them-including price, variety and editorial viewpoint.

Communications media compete in part by offering independent editorial viewpoints and an independent gatekeeper function. Six media firms cannot effectively respond to the demand for choice or diversity competition by extending their product lines, because new media products will inevitably bear, to some degree, the perspective of their corporate parent. For these reasons, competition in terms of editorial viewpoint or gate-keeping can be guaranteed only by insuring that a media market contains a significantly larger number of firms than is required for price competition in other, more

conventional markets.

It is unclear, however, whether this interpretation of the anti-trust laws will be applied by the enforcement agencies and the courts. What is needed, therefore, is a much more careful look at the challenges that will be raised by future media mergers.

This could best be accomplished if Congress created a Temporary Committee to Study Media Mergers and Media Convergence. This committee could include members of Congress; the heads of the Federal Trade Commission, the Federal Communications Commission and the Justice Department's anti-trust division. GEOs of media companies; and representatives of consumer groups. The committee would identify problems that may be caused by large media mergers and by media convergence. If the committee concludes that existing anti-trust laws are madequate, it should recommend to Congress that new anti-merger legislation be enacted. This may be the only way to prevent the nightmare scenario of a media oligopoly.

- 51. A wave of media mergers could
 - (a) be a threat to democracy
 - (b) result in limiting editorial viewpoints
 - (c) result in misuse of certain laws the bring diam and askestory and an and
 - (d) Both (a) and (b) alog boos on they as at most monotone a rol dotted

52. According to the passage, what could be the most significant outcome of media oligopoly?

- (a) An increase in the cost of newspapers
- (b) The fact that in the long run, there will be a shift of power to people who might not be balanced and fair in the way they deal with the media
- (c) Certain websites may get more prominence than others and allowed and the level and the level of the devolution
- (d) There will be no competition among the newspapers
- - (A) Half a dozen firms are enough to keep the market price-competitive and the bad of audiotection failed and the second second
 - (B) Half a dozen companies are not enough to provide a democratic media and the second demote the
 - (C) Enforcement agencies may not interpret the anti-trust laws correctly much and the standard the asterna to
 - (D) Half a dozen companies will be inadequate to meet the consumer demand for product diversity
 - (a) A, B (b) A, B, C (c) A, B, C, D (d) B, C, D

54. To get a clear picture of the challenges posed by media mergers, the author recommends

- (a) creation of strict laws uplevidue around (d)
- (b) strengthening the enforcement agencies
- (c) creation of a study committee by the Congress
- (d) None of the above

Directions (55–58) Read the passage given below and answer questions that follow based on the information given in the passage.

One major obstacle in the struggle to lower carbon dioxide emissions, which are believed to play a role in climate change, is the destruction of tropical rainforests. Trees naturally store more carbon dioxide as they age, and the trees of the tropical rain forests in the Amazon, for example, store an average of 500 tonnes of carbon dioxide per hectare (10,000 square miles). When such trees are harvested, they release their carbon dioxide into the atmosphere. This release of carbon dioxide through the destruction of tropical forests, which experts estimate accounts for 20% of global carbon dioxide emissions annually, traps heat in the earth's atmosphere, which leads to global warming.

The Kyoto treaty set forth a possible measure to curtail the rate of deforestation. In the treaty, companies that exceed their carbon dioxide emission limits are permitted to buy the right to pollute by funding reforestation projects in tropical rainforests. Since forests absorb carbon dioxide through photosynthesis, planting such forests helps reduce the level of atmospheric carbon dioxide, thus balancing out the companies' surplus of carbon dioxide emissions. However, attempts at reforestation have so far been unable to keep up with the alarming rate of deforestation, and it has become increasingly clear that further steps must be taken to curtail deforestation and its possible deleterious effects on the global environment.

One possible solution is to offer incentives for governments to protect their forests. While this solution could lead to a drastic reduction in the levels of carbon dioxide, such incentives would need to be tied to some form of verification, which is extremely difficult, since most of the world's tropical forests are in remote areas, like Brazil's Amazon basin or the island of New Guinea, which makes on-site verification logistically difficult. Furthermore, heavy cloud cover and frequent heavy rain make conventional satellite monitoring difficult.

Recently, scientists at the Japan Aerospace Exploration Agency have suggested that the rates of deforestation could be monitored using new technology to analyse radar waves emitted from a surveillance satellite. By analysing multiple radar microwaves sent by a satellite, scientists are able to prepare a detailed, high resolution map of remote tropical forests. Unlike photographic satellite images, radar images can be measured at night and during days of heavy cloud cover and bad weather.

Nevertheless, critics of government incentives argue that radar monitoring has been employed in the past with little success, citing the Global Rainforest Mapping Project which was instituted in the mid 1990s amid concern over rapid deforestation in the Amazon. However, the limited data of the Mapping Project was due only to the small amount of data that could be sent from the satellite. Modern satellites can send and receive 10 times more data than their predecessors of

the mid 1990s, obviating past problems with radar monitoring. Furthermore, recent technological advances in satellite radar that allow for more accurate measurements to be made, even in remote areas, make such technology a promising step in monitoring and controlling global climate change.

- 55. Which one of the following most accurately expresses the main point of the passage?
 - (a) Although scientists continue to search for a solution, there is, as yet, no good solution for the problem of rain forest deforestation
 - (b) One major obstacle to lessening the contribution of atmospheric carbon dioxide caused by deforestation may be removed through satellite radar monitoring
 - (c) Recent increases in the rate of deforestation of tropical rainforests have caused serious concern and spurred efforts to curb such deforestation
 - (d) Although an excellent first step, the solutions set forth by the Kyoto treaty will not significantly curb the rate of deforestation unless companies begin to lessen their carbon dioxide emissions
- 56. It can be inferred from the passage that photographic satellite images
 - (a) are impervious to bad weather and a solution of the second se
 - (b) cannot be used efficiently at night and a solution of the second sec
 - (c) are less expensive than radar monitoring
 - (d) can send only a small amount of data from a satellite to a base
- 57. Which one of the following most accurately describes the author's attitude toward radar monitoring as expressed in the passage?
 - (a) Wary skepticism(c) Grudging respect

- (b) Cautious ambivalence
- (d) Reasoned optimism
- 58. The information presented in the passage implies which one of the following about the Mapping Project?
 - (a) The project was unsuccessful because it used only satellite radar monitoring
 - (b) If the satellite had been able to send more data, the project may have been successful
 - (c) It was established by the Kyoto treaty in response to widespread concern over deforestation
 - (d) The project used only conventional satellite monitoring and on-site verification visits
 - **Directions (59–60)** Given below are sets of four sentences that form part of a paragraph. Arrange the four sentences so that the given sentences constitute a coherent paragraph.
- 59. (A) 1971 war changed the political geography of the subcontinent
 - (B) Despite the significance of the event, there has been no serious book about the conflict
 - (C) Surrender at Dhaka aims to fill this gap
 - (D) It also profoundly altered the geo-strategic situation in South-East Asia
 - (a) ACBD (b) CADB (c) BADC (d) ADBC
- 60. (A) Thus begins the search for relief: painkillers, ice, yoga, herbs, even surgery
 - (B) Most computer users develop disorders because they ignore warnings like tingling fingers, a numb hand or a sore
 - bidwh ashoulder to mote does of beit of or been bloow as the of the objection of the block of the block of the
- (C) They keep pointing and dragging until tendons chafe and scar tissue forms, along with bad habits that are almost impossible to change.
 - (D) But cures are elusive, because repetitive injuries present a bag of ills that often defy easy diagnosis. (a) BDAC (b) BADC (c) BCAD (d) ABCD
- ad bis (a) BDAC and bis addition (b) BADC (c) BCAD