	3340 FERE	JUNZ DEFORTITIKLMNOP	
		RT - A REASONING ALB	
Dire	ection: In questions no. 1 to 6, select the related d/letters/number from the given alternatives. 25:625:35:? (A) 1575 (B) 1205 (C) 875 (D) 635 FILM:ADGH::MILK:? (A) HEGF (B) ADGF	meaningful order of the following continents in ascending order of area ? (i) South America (ii) Africa (iii) Europe (iv) Australia (v) North America	निर्देश शब्द/ः 1.
3.	(C) HDGE (D) HDGF 583 : 488 : : 293 : ?	$ \begin{array}{ccc} (A) & (ii), (i), (v), (iii), (iv) \\ (B) & (ii), (v), (i), (iii), (iv) \\ (C) & (ii), (v), (i), (iv), (iii) \end{array} $	2. 3.
4.	UMPIRE : GAME : : ? (A) Prodigy : wonder (B) Chef : banquet (C) Legislator : election (D) Moderator : debate	Direction: In questions no. 14 to 21, a series is given,	4.
5.	HCM:FAK::SGD:? (A) QEB (B) QIB (C) ESQ (D) GES	15. 17, 43, 81, 131, <u>?</u> . (A) 375 (B) 468 (C) 300 (D) 193	
6.	AHOP:CKSU::BJMF:? (A) EZUQ (B) DMQK (C) DQKM (D) CJWM	16. 6 15 20. 8 4 5	5. 6.
7.	Arrange the following words as per order in the dictionary: (i) Ambitious (ii) Ambiguous (iii) Ambiguity (iv) Animation (v) Animals (A) (iii), (ii), (iv), (i), (v) (B) (iii), (ii), (v), (iv), (i) (C) (iii), (ii), (i), (v), (iv) (D) (iii), (ii), (iv), (v), (i)	51 65 ?	7.
Dire	ection: In questions no. 8 to 11, find the odd word/	18. 5, 11, 23, 47, 95, <u>?</u> .	निर्देश



ODMAS		396	7120	L	14X	.4	-(120	ßx	6/7	5(4	i + i	[6]		
2.2.	If MU ŞPRIY (A)	JŞICAL is NKLE be w QRBKCNJ	ritten ?	KWQKACL	10		rigi	it and c	ycled 6	km, t	urned	rom his l right c Iow mai	vcled	10 km	4
	(C)	QRPKLMJ	(-)) URTKPM	0		hav	e cyclec	l to read	ch stra	ight h	ome?	ny km	will he	
23.	Nism	oraintallia	cont the set				(A)	10 kr	n		(B)	21 kn	n		
	as r.)	(is more in	itelligent that ost intelliger	M is not as in n Y but not a nt of all ?	ntelligent s good as	31.	(C) If 'P	16 kr		Y maa	(D)	20 km ', 'R' me			2
	(A)	N (B)	X (C)	M (D) Y		Sn	neans' -	-', ther	1:		, K III	eans -	÷ and	
24.	Ram a	nd Sam st	tart walking	, towards N	orth and		44 Ç	2.9 R 12	S6Q4	P 16 =	= ?				
	right.	20 metres. 1 After some	Ram turns to etime, Ram w	his left and S valks 10 metr	am to his		(A) A di	36 rection	(B)	124	(C)	25 n the Roa	(D)	112	2
	toward	5am walks Is his left a	only 7 metr and Sam to 1	urned. On t es. Later, Ra his right. Bo Ram from Sa	am turns		that show	to an ao the poi ving Sou	cident, i nter wł 1th. Sit	the pol hich w ta, a tra	le turn vas sho avelle	ed in su owing H r went to	char East, s o the s	tarted	
	2 a 2 a 2	10 metres	(B)	20 metres			uirea	ally she	nking i	it to be	e West	. In wh	at dir	ection	
	(C)	17 metres	(D)	5 metres			(A)	North		avenini	(B)	West			
25.	Aman	travels 4 km	n due north	then travels 6	1		(0)	East			(D)	South		1 .	
	eastan	d further tra the starting	avels 4 km d	ue north. Ho	o km due ow far he	33.	Whic	h of the the giv	follow	ing int	tercha	nge of s	L	vould	2
	1	km	(B)	14 km				×8-12			orrect				
	(C) 8	km	(D)	10 km				+ and			(B)	+ and	_		
the let	ters of th	lect the wor le given wo	rd which can	27, from th mot be forme	e given ed using	34.	(C) If -	- and stands	l÷ for add	dition	(D)	+ and	× tiplica	ation,	f
		GEOUS			-	G	× 101	followi	iction, a	and +	for di	vision,	then w	vhich	-
		ECURE	(B)	ARGUE		2	(A)	25×12							4
	(C) (OURSE	(D)	GRACE	to		(B)	25-12							2
27.		CATION ACIFIC	(B)	FACTION	5X)		(C) (D)	25 - 15 25 + 11	$+5 \div 4$	×16=	= 21				-
-	(C) F	AINTING	(D)	TONIC		35.	Thorn								2
28.	Which c make th	f the follow	wing interch ation correc	ange of sign	would		None	4 were v of them	wearing were w	g the h vithou	ockey it eithe	ub. On a shirts p er hocke	prescri	ibed.	2
		<4+16=3					snirts.	Eleven	were w	vearin	g the	prescrib	ed ho	ckev	-
		and 6	(B)	÷ and +			pants. (A)	7 (R) 0	erein	compl	lete unif	-		
(and –	(D)	5 and 5		P		. (5) 8	6	9	6 (I	1	9	
(() T					36.	lf MEA as :	AT is wr	itten as	TEAN	M, the	n BALE	is wri	itten	
(29. I		R is written	nas YCVGT,	then what is v	written		(A)	ELAB			-	EABL			2

Direction: In questions no. 37 and 38, two statements are given followed by two conclusions I and II. You have to consider the statements to be true even if they seem to be at variance from commonly known facts. You have to decide which of the given conclusions, if any, follow from the given statements.

37.	Statement I:	Some keys are locks, some locks					
	Statement II:	are numbers. All numbers are letters, all					
	Conclusion I:	letters are words.					
	Conclusion II.	Some words are numbers.					

- Conclusion II: Some locks are letters.
- (A) Conclusion I follows
- (B) Conclusion II follows

38.

- (C) Conclusion I and II follows
- (D) None of the conclusion follows
- Statement I: The constitution assures the fundamental rights.

Statement II: Parliament has right to amend the constitution.

Conclusion I: Parliament included fundamental rights in the constitution

Conclusion II: Parliament did not assure the fundamental rights.

- (A) Only conclusion I follows
- (B) Only conclusion II follows
- (C) Both conclusions I and II follows
- (D) None of them
- 39. Four position of dice are given below. Which letter will be opposite to D? Question figures:



41. Identify the response figure in which the figures given are found.

निर्देश

I और

वक्तव्य

निष्कष

37.

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39.

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Question figure :



42.

Answer figures:



In the given figure, Circle represents persons having Car, triangle represents persons having Motor Cycle, square represents persons having Autorickshaws, rectangle represents persons having Cycle. Find the region where persons having Car, Motor Cycle, Cycle but not Autorickshaw.



40. A cube which is painted red on the outer surface is of 2 inches height, 2 inches wide and 2 inches across. If it is cut into one-inch cubes as shown by dotted lines, indicate the number of cubes which are red on two sides ?



Direction : In questions no. 43 and 44, study the following diagram carefully and answer the questions based on it.



43. The diagram shows the survey on a sample of 1000 persons with reference to their knowledge of English, Hindi and Marathi. How many know all the languages ?

(C)

105

85

(D)

175

78 (B)

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(A)

SPACE FOR ROUGH WORK

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- The diagram shows the survey on a sample of 44. 1000 persons with reference to their knowledge of English, Hindi and Marathi. 105 people know
 - languages. (A) Marathi, Hindi
 - (B) English, Hindi
 - (C)
 - Marathi, English
 - Hindi, Marathi, English (D)

Direction: In questions no. 45 and 46, which answer figure will complete the pattern in the question figure ? Question figure : 45.



Answer figures :



A word is represented by only one set of numbers as 48. given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as in two matrices given below. The columns and rows of Matrix I are numbered from 0 to 4 and that of Matrix II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, e.g. 'N' can be represented by 02, 24, etc. and 'Q' can be represented by 56, 78 etc. Similarly, you have to identify the set for the word 'SPORTS' :

	Matrix - I							N	Aata	rix -	II	
	0	1	2	3	4	1	-	15	6	7	8	9
0	L	M	N	0	K	1	5	P	0	R	S	T
1	N	M	K	L	0	1	6	0	P	S	R	T
2	L	K	M	0	N		7	T	R	P	0	S
3	N	0	K	M	L	8	8	R	P	S	õ	T
4	0	M	K	L	N		9	0	P	S	R	Ť
(A) (B) (C)	3	24, 87, 67,	20, 55,	23,	85, 57,	75 69	, 67 , 87	7				





44.

के प्रतिरू 45.

निर्देश :

46.

47.

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Direction : In questions nos. 39 and 40, select the related 46. Which one of the given responses would be a word/letters/number from the given alternatives. meaningful order of the following? 39. XC:ZA::MU:_?_. (i) Fish Pterodactyl (ii) Amoeba (iii) (iv) Foliage (A) NO (B) OT (iii), (iv), (iii), (i) (A) (iv), (iii), (i), (ii) (B) OS (C) (D) BZ (C) (iii), (ii), (i), (iv) (ii), (iii), (i), (iv) (D) Birds: Flock:: Cows: _? 40. 47. Find the missing term : Pack (A) 5, 16, 38, 71, ____, 170 Kine (B) (A) 142 Kith (B) 128 (C) (D) Group (C) 115 (D) 137 Direction : In questions no. 41 and 42, a series is given, 48. There are two statements followed by two with one term missing. Choose the correct alternative from conclusions. You have to take the two given the given ones that will complete the series. statements to be true even if they seem to be at variance from commonly known facts and then 123, 6, 456, 15, 567, ____, ___. 41. decide which of the two given conclusions logically follows from the two given statements? 81, 9180 (B) 81, 8910 (A) Statement I: Some pots are rats. (C) 18, 8910 18, 1098 (D) Statement II: All rats are bricks. Conclusion I: Some rats are bricks. 42. ACB, DFE, GIH, _?__. Conslusion II: All pots are not bricks. (A) MNO (B) LKJ Neither conclusion I nor II follows. (A) (B) (C) JLK Only conclusion I follows. (D) LMN

FOR VISUALLY HANDICAPPED CANDIDATES ONLY.

39.

निर्देश :

খাব্ব/জা

40.

पद लुप्त अनुक्रम

41.

42.

निर्देश

43.	(A) (C)	SEAL DOLPHIN	(B) (D)	OSTRICH PENGUIN	49.	word	not be formed	rnatives, se using the	elect the word which letters given in the	43
4.	(A) (C)	XWZ QPR	(B) (D)	BAC IHJ		(A) (C)	SNAIL TALES	(B) (D)	MASTER MOTELS	44
5.	(A)	81	(B)	49	50.	If 1* 5*6 e	2 = 4, $2*3 = 24$, equal to ? 160	, 3*4=48, (B)	then, what will be	45
	(C)	27	(D)	66 SPACE FOR R	OUG	(C) H WC	120 DRK	(D)	140	-

PART - B

GENERAL AWARENESS

51.		osulfan spray on ca ution to the tune of t Karnataka Kerala		crop resulted in the y in : Tamil Nadu Andhra Pradesh	60.	Bloc (A) (B)	od is a : muscular tissue reproductive tissue connective tissue
52.	Non	Resident Indians (1	NRI) D	ay is marked on :		(D)	epithelial tissue
	(A) (C)	January 19 January 9	(B) (D)	January 7 January 17	61.	Who as a	o described the Government of India Act, 1935 new charter of bondage ?
53.	Whi	ch of the following	is an er	ndemic species ?		(A)	Pt. Jawaharlal Nehru
	(A)	Pink head duck	(B)	Nicobar pigeon		(B)	B.R. Ambedkar
	(C)	Horn bill	(D)	Indian Rhino		(C)	Mahatma Gandhi
54.	Com	munication satellite	30.000	r of hear		(D)	Rajendra Prasad
	 (A) provide information of natural resources only (B) transmit communication signal only 				62.		o of the following enjoys the rank of Cabinet ister in Union Cabinet?
	(C)	receive communi				(A)	Political Advisor to PM
	(D)			munication signal		(B)	Deputy Chairman of Planning Commission
55.	India					(C)	Judge of Supreme Court
55.		elopment - 2012 was		, Disarmament and ded to :		(D)	Secretary to Government of India
	(A)	Ellen Johnson Sirl			63.	Expa	and the term IPCC :
	(B)	Tereza Fajksova				(A)	Intergovernmental Panel on Climate Change
	(C)	Sunita Williams				(B)	International Pollution Control Council
	(D)	Chanda Kochhar				10	International Panel of Climate Control
56.	Whe	re are the Todas fou	nd?			(D)	Interim Panel of Climate Change
	(A)	Arunachal Prades	sh		64.	The	disease that has been eradicated from the world
	(B)	Madhya Pradesh				is:	and a state of the state of the world
	(C)	Tamil Nadu				(A)	Chicken pox (B) Small pox
	(D)	Rajasthan				JC)	Leprosy (D) Poliomyelitis
						-	

66.

51.

52.

53.

54.

55.

56.

57.

58.

59.

- Who gave the title of "Mahamana" to Madan Mohan 57. Malviya?
 - (A) Mahatma Gandhi
 - Bal Gangadhar Tilak (B)
 - (C) Dada Bhai Naurozi
 - Gopal Krishna Gokhale (D)
- 58. Hypothermia occurs due to loss of excessive heat from body due to sudden low body temperature in :
 - (A) Lizards Snakes (B)
 - (C) Frogs (D) Human beings
- DPT vaccine is administered to prevent diseases 59. like:
 - (A) Dengue, Polio and Tetanus
 - Diphtheria, Pertussis and Typhoid (B)
 - (Q) Diphtheria, Pertussis and Tetanus
 - Dengue, Pertussis and Typhoid (D)

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Who wrote the book "Why Socialism"? 65. (A) M.N. Roy Jayaprakash Narayan (B) Mahatma Gandhi (C) Acharya Narendra Dev (D) The percentage of nitrogen present in ammonium sulphate is :

(A)	30.5%	(B)	18%
(C)	21%	(D)	25%

- The WISE Prize-2012, also known as the "Nobel 67. Prize for Education" was conferred by the WISE Summit in Doha on :
 - Dr. M.S. Swaminathan (A)
 - (B) Dr. APJ Abdul Kalam
 - (C) Dr. Madhav Chavan
 - Dr. Yash Pal (D)

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- 68. Who was not a politician?
 - (A) J. Jayalalitha
 - (B) H.N. Bahuguna
 - (C) I.K. Gujral
 - S.L. Bahuguna / (D)
- Of the following land uses, which is restricted to 69. Special Economic Zones?
 - Marketing Centres (A)
 - Information Technology Companies (B)
 - **Educational Institutions** (C)
 - Free trade Centres (D)
- India and Japan inked two agreements during 70. November 2012 to enable Tokyo to import from India:
 - (A) Rubber based products
 - Leather goods (B)
 - Rare earth minerals 0/
 - (D) Basmati type rice
- Who was the Viceroy at the time of Quit India 71. Movement?
 - Lord Lin Lithgow (A) Lord Irwin (B)
 - Lord Mountbatten (D) (C) Lord Wavell
- The hormone used as an oral contraceptive is : 72.
 - (A) Testosterone (B) Aldesterone
 - Cortisone (C)
- Progesterone (D)

- What is the first sermon of Buddha called as ? 76.
 - (A) Kachchayanagottasutta
 - Mahaparinirvansutta (B)
 - (C) Brahmajalasutta
 - Dhammachakkapabattanasutta (D)
- From which of the following banks did Madan 77. Mohan Malaviya take loans for financing "The Hindustan Times" ?
 - Bank of Baroda (A)
 - (B) State Bank of India
 - Punjab National Bank (C)
 - (D) Bank of Maharashtra
- "Whether I earned your vote or not, I have listened 78. to you, I have learned from you. You have made me a better President", as said by :
 - APJ Abdul Kalam (A)
 - Pranab Mukherjee (B)
 - AC) Barack Obama
 - (D) George Bush
- Acceptable "Noise Pollution Level" in India range 79. between :
 - 70 100 dec (A) (B) 10 - 15 dec 16 - 35 dec (Q) (D) 40 - 45 dec
- First Hindu-American to enter in the US House of 80. Representative as senator is :
 - (A) Ami Bera
 - Tulsi Gabbard (B)
 - Sunita Williams (C)
 - (D) Jyoti Sengupta
- 81. Multi-purpose river valley projects are the "New temples of modern India".

73.

74.

75.

70.

71.

72.

68.

69.

- 73. Pick out the correct match :
 - (A) Milk Fibre and Minerals BY
 - Egg yolk Protein and Fat
 - Fleshy foods -Calcium and Protein (C)
 - (D) Fish Starch and Vitamin
- Externality theory is the basic theory of the following 74. branch of Economics :
 - International Economics (A)
 - Macro Economics (B)
 - (C) Environomics
 - **Fiscal Economics** (D)
- Stains of rust on clothes can be removed by : 75.
 - Alcohol (A) H₂O₂ (B) Oxalic acid (D) Petrol

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- The above statement is made by :
- (A) Rajiv Gandhi
- Jawaharlal Nehru (B)
- (C) Motilal Nehru
- (D) Mahatma Gandhi —
- 82. Which of the following is an impact printer ?
 - (A) Laser printer
 - (B) Daisy wheel printer
 - Ink-jet printer (C)
 - (D) Bubble-jet printer
- Ethanol containing 5% water is known as : 83.
 - Rectified spirit (A)
 - (B) Absolute alcohol
 - Dilute alcohol (C)
 - (D) Power alcohol
- "Functional Finance" is associated with : 84. (A) Adams (B) Adolph Wogner (C)(D)
 - Abba'P' Lerner Adam Smith

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The eastward continuation of the Brazil current is 85. called :

- West Atlantic drift (A)
- North Atlantic drift (B)
- South Atlantic drift (C)
- Counter Equatorial drift (D)

'Farad' is the unit of : 86.

(C)

- (A) Resistance (B) Conductance
 - Capacitance (D) Inductance
- 87. Steel is more elastic than rubber because it :
 - is deformed very easily (A)
 - (B) is harder than rubber
 - AC) requires larger deforming force
 - (D) is never deformed
- 88. Aung San Suu Kyi is a native to :
 - Arunachal Pradesh (A)
 - (B) Tibet
 - (C) China
 - (D) Myanmar
- Identify the odd term amongst the following 89. group:
 - (A) Microwaves
 - Coaxial cable (B)
 - (C) Optical fibre
 - Twisted pair wire (D)
- Transboundary pollution (or) Acid rain is caused 90. by:
 - (A) Hydrocarbon

94.	Diamonds are priced higher than water because :									
	(A)	their total utility to buyers is higher than that of water.								
	(B)	consumers do not buy them at lower prices.								
	(C)	they are sold by selected firms with monopolistic powers.								
	(D)	their marginal utility to buyers is higher than that of water.								
95.	Bloo	d group was discovered by :								
	(A)	Pavlov								
	(B)	Alexander Fleming								
	(C)	William Harvey								
	(D)	Landsteiner								
96.	The '	'One Straw Revolution" was written by :								
	(A)	Norman Borlaug								
	(B)	Masanobu Fukuoka								
	(C)	Richael Carlson								
	(D)	M.S. Swaminathan								
97.	Wha recog	t type of information system would be nised by digital circuits ?								
	(A)	Only Roman system								

- (B) Hexadecimal system
- (C) Binary system
- Nitrogen oxide and sulphur dioxide (B)
- Carbon monoxide (C)
- (D) Carbon dioxide
- The most powerful woman in business in India as 91. rated by the "Fortune" for the year 2012 is :
 - Anjali Bansal (A)
 - Chanda Kochhar ←(B)
 - Prabha Parameswaran (C)
 - Debjani Ghosh (D)
- The vacancy of the office of the President must be 92. filled within :
 - 1 month (A) 3 months (B) (C) 6 months 12 months (D)
- 93. In dicots the pollen-grains possess :
 - four germ pores (A) (B) one germ pore
 - two germ pores (C) three germ pores (D)
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- Both hexadecimal and binary system (D)
- The natural disaster in which carbon-di-oxide 98. suddenly erupts from a deep lake water is known as _____ .
 - Glacial (A) (B) Liminic Lacaustrine (C) Fluvial (D)
- In which part of the Indian Constitution, the 99. fundamental duties are enshrined ? V (A) (B) IV (C) IVA (D) **IVB**
- Who was the other Congress leader who joined with 100. Motilal Nehru to start the Swaraj Party in 1923? (A) M.K. Gandhi (B) G.K. Gokhale (C) B.G. Tilak (D) Chittaranjan Das

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85.

86.

87.

88.

89.

90.

93.

125220:12	-
33:01	

(D)

4



PART - C

QUANTITATIVE APTITUDE

101. Three sides of a triangular field are of length 15 m, 20 m and 25 m long respectively. Find the cost of sowing seeds in the field at the rate of 5 rupees per sq. m.

(A) 750 (B) 150 (C) 300 (D) 600

102. Value of (tan1° tan2° tan3° . . . tan 89°) is :

(A)	undefined	(B)	0	
(C)	1	(D)	89	

103. A, B, C and D purchase a gift worth ₹ 60. A pays 1/2 of what others are paying, B pays 1/3rd of what others are paying and C pays 1/4 th of what others are paying. What is the amount paid by D ?

(A) 14 (B) 15 (C) 16 (D) 13

104. Mohan gets 3 marks for each correct sum and loses 2 marks for each wrong sum. He attempts 30 sums and obtains 40 marks. The number of sums solved correctly is :

(A) 25 (B) 10 (C) 15 (D) 20

105. The greatest common divisor of

 $3^{3^{333}} + 1 \text{ and } 3^{3^{334}} + 1 \text{ is :}$ (A) $3^{3^{333}} + 1$ (B) 20 (C) 2 (D) 1

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109. If $x = a \sec \theta \cos \phi$, $y = b \sec \theta \sin \phi$, $z = c \tan \theta$, then

the value of $\frac{x^2}{a^2} + \frac{y^2}{b^2} - \frac{z^2}{c^2}$ is: (A) 9 (B) 0 (C) 1

102.

103.

101.

110. A person distributes his pens among four friends

A, B, C, D in the ratio $\frac{1}{3}: \frac{1}{4}: \frac{1}{5}: \frac{1}{6}$. What is the minimum number of pens that the person should have?

(A) 75 (B) 45 (C) 57 (D) 65

111. If $\frac{\sec\theta + \tan\theta}{\sec\theta - \tan\theta} = \frac{5}{3}$, then $\sin\theta$ is equal to :

(A)
$$\frac{2}{3}$$
 (B) $\frac{3}{4}$ (C) $\frac{1}{4}$ (D) $\frac{1}{3}$

112. A man standing in one corner of a square football field observes that the angle subtended by a pole in the corner just diagonally opposite to this corner is 60°. When he retires 80 m from the corner, along the same straight line, he finds the angle to be 30°. The length of the field, in m, is :

104.

105.



(0

क

(A)

एक

52

80

31

धा]

(A)

(9)

120. यदि

121.

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120.	$\left(\frac{a+c}{c}\right)$	$b + c = 0$, then the $\frac{b+c}{a} + \frac{c+a}{b}$			\overline{b} 126.	2x – num	$x^{2} + y^{2} + z^{2} = 3y + 4z$ is [abers]: 3 (B)	Assur	(C) −3 −3	3, then x, y, z 9	the va are a (D)	due of dl real 1
	is : (A)	9 (B) 0	(C)	8 (D)	-3 127.	The	square root	of 33 –	4√ <u>35</u> i	s:		
121.	The	arithmetic mean o	f the s	cores of a grou	up of	(A)	$\pm (\sqrt{7}-2\sqrt{7})$	(5)	(B)	±(2 \	√7 – √5	5)
	students in a test was 52. The brightest 20% of them secured a mean score of 80 and the dullest 25%, a mean score of 31. The mean score of remaining 55% is :				5%, a	(C)	±(2 √7+√	/5)	(D)	±(√7	+2√5)
	(A)	54.6% approx.	54.6% approx. (B) 45%			In a $\triangle ABC$, $\angle A : \angle B : \angle C = 2 : 3 : 4$. A line CD						ne CD
	(C)	50%	(D)	51.4% approx	x.	(A)	vn to AB, tl 80° (B)	nen the 20°	∠ ACI (C)	D is : 40°	(D)	60°
									1.2 0.0			

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10

2

- **129.** If $a * b = a + b + \frac{a}{b}$, then the value of 12*4 is:
 - (A) 48 (B) 19 (C) 20 (D) 21
- 130. A, B, C walk 1 km in 5 minutes, 8 minutes and 10 minutes respectively. C starts walking from a point, at a certain time, B starts from the same point 1 minute later and A starts from the same point 2 minutes later than C. Then A meets B and C at times.
 - (A) $2 \min, 3 \min$ (B) $\frac{4}{3} \min, 3 \min$
 - (C) $\frac{5}{3}$ min, 2 min (D) 1 min, 2 min
- 131. The price of sugar having gone down by 10%, a consumer can buy 5 kg more sugar for ₹ 270. The difference between the original and reduced price per kg is :
 - (A) 62 paise (B) 60 paise
 - (C) 75 paise (D) 53 paise

132. A person observed that he required 30 seconds less

A contractor undertook to finish a certain work in 134.124 days and employed 120 men. After 64 days, he found that he had already done $\frac{2}{3}$ of the work. How many men can be discharged now so that the work may finish in time? (B) 50 (C) (A) 40 48 (D) 56 The radius of the circumcircle of a right angled 135. triangle is 15 cm and the radius of its inscribed circle is 6 cm. Find the sides of the triangle. 30, 24, 25 (B) 24, 36, 30 (A) 30, 40, 41 (D) 18, 24, 30 (C) If $a \sin\theta + b \cos\theta = c$ then the value of $a \cos\theta - b \sin\theta$ 136. is : (A) $\pm \sqrt{a^2 - b^2 - c^2}$ (B) $\pm \sqrt{a^2 - b^2 + c^2}$ (C) $\pm \sqrt{-a^2 + b^2 + c^2}$ (D) $\pm \sqrt{a^2 + b^2 - c^2}$ The marked price of a watch was ₹ 720. A man 137. bought the same for ₹ 550.80 after getting 2 successive discounts, the 1st being 10%. What was the 2nd discount?

(A) 18% (B) 12% (C) 14% (D) 15%

1.15

130.

131.

132.

133.

OG.

2:

(A)

129.

ground is
$$(Take \pi = \frac{22}{7})$$
:
(A) 10.5 m (B) 3.5 m
(C) 5.5 m (D) 7.5 m

133. ABC is an isosceles triangle with AB = AC. A circle through B touching AC at the middle point intersects AB at P. Then AP : AB is :

(A) 3:5 (B) 1:4 (C) 4:1 (D) 2:3

138. A person bought two bicycles for ₹ 1600 and sold the first at 10% profit and the second at 20% profit. If he sold the first at 20% profit and the second at 10% profit, he would get ₹ 5 more. The difference of the cost price of the two bicycle was :

(A)	₹ 25	(B)	₹75	
(C)	₹ 50	(D)	₹40	

139. A sum of money is sufficient to pay A' s wages for 21 days and B's wages for 28 days. The same money is sufficient to pay the wages of both for :

(A) $24 \frac{1}{2}$ days (B) 12 days (C) $12 \frac{1}{4}$ days (D) 14 days

SPACE FOR ROUGH WORK

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140. Each of the two circles of same radius *a* passes through the centre of the other. If the circles cut each other at the points A and B and O, O' be their centres, area of the quadrilateral AOBO' is :

(A)	$\frac{1}{4}a^2$	(B)	$\frac{1}{2}a^2$	Ł
(C)	$\frac{\sqrt{3}}{2}a^2$	(D)	a ²	

141. A swimmer swims from a point A against a current for 5 minutes and then swims backwards in favour of the current for next 5 minutes and comes to the point B. If AB = 100 metres, the speed of the current (in km per hour) is :

> (C) 0.4 (A) 1 (B) 0.6 0.2 (D)

- Taking any three of the line segments out of segments 142.of length 2 cm, 3 cm, 5 cm and 6 cm, the number of triangles that can be formed is :
 - 4 (C) 3 (B) (A) 1 (D) 2
- Arvind purchased a wrist watch with 30% discount 143. on the labelled price. He sold it with 40% profit on the price he bought. What was his percent loss on the labelled price?
 - (A) 4 (D)
- of students appeared in the test?

The table given below shows production of five 145. types of cars by a company from the year 1998 to 2003. Study the table and answer question.

Years>	1998	1999	2000	2001	2002	2003	
Types 🛓							Total
Р	10	18	16	15	11	18	88
Q	14	12	13	12	11	14	76
R	16	20	14	13	15	12	90
S	5	8	12	14	20	31	90
Т	26	18	24	20	23	21	132
Total	71	76	79	74	80	96	476

In which year the production of cars of all types taken together was approximately equal to the average of the total production during the period :

(A) 2002 (B) 1998 (C) 1999 (D) 2000

A health drink company prepares the drinks of 3 different flavours P, Q, R. The production of 3 flavours over a period of six years has been expressed on bar graph provided below. Study the graph and answer the questions from 146 to 150.



141.

140.

142.

143.

(A)

147.		average annual p maximum in the g		on of which flavour riod ?	149.	proc	duction of flave	our Q in 2008	ween the averag 3, 2009 and 2010 fro	m
	(A)	P and R both	(B)	P only		that	of flavour P le is :	in 2005, 200	06 and 2007 in lal	ch
	(C)	P and Q both	(D)	Qonly		(A)	5.5	(B)	5	
148.	The	percentage of the	total pro	duction of flavour R		(C)	50	(D)	0.5	
	in 20	007 and 2008 with our P in 2005 and	respect (to the production of	150.	rise of	or fall in prod	uction from	rs the percentage the previous year	of is
	(A)	133.33%	(B)	97.67%			imum for the f			
	(C)	102.25%	(D)	115.35%		(A) (C)	2010 2007	(B) (D)	2006 2009	
44.	30 13	ch number should		Y HANDICA both the asterisks in	PPEI 148.	Ther	mean temperat	ture from Mo	onday to Wednesda	y
44.	30 13	ch number should			1	The r was 3	mean temperat 37°C and from	ture from Mo Tuesday to	onday to Wednesda Thursday was 34°C	2
44.	30 13				1	The r was 3 If the	mean temperat 37°C and from	ture from Mo Tuesday to on Thursda	onday to Wednesda Thursday was 34°C y was 4/5 th that o	2.
44.	30 13	ch number should			1	The r was 3 If the Mon	mean temperat 37°C and from e temperature day, the tempe	ture from Mo Tuesday to on Thursda erature on T	onday to Wednesda Thursday was 34°C y was 4/5 th that o hursday was :	2.
44.	(21)	th number should $\left \times \left(\frac{189}{*} \right) \right = 1$?	replace	both the asterisks in	1	The r was 3 If the	mean temperat 37°C and from e temperature day, the tempe	ture from Mo Tuesday to on Thursda	onday to Wednesda Thursday was 34°C y was 4/5 th that o	2.
44.	$\left(\frac{21}{*}\right)$ (A)	ch number should $ \begin{pmatrix} \frac{189}{*} \\ $	replace	both the asterisks in 21	1	The r was 3 If the Mon	mean temperat 37°C and from e temperature day, the tempe	ture from Mo Tuesday to on Thursda erature on T	onday to Wednesda Thursday was 34°C y was 4/5 th that o hursday was :	2.
	(<u>21</u>) (A) (C)	ch number should $ \begin{pmatrix} \frac{189}{*} \\ = 1? $ 467 63	replace (B) (D)	both the asterisks in 21	1	The r was 3 If the Mon (A)	mean temperat 37°C and from e temperature day, the tempe 37°C	ture from Mo Tuesday to on Thursda erature on T	onday to Wednesda Thursday was 34°C y was 4/5 th that o hursday was : 34°C	2.
	$\left(\frac{21}{*}\right)$ (A) (C) If a -	th number should $ \begin{pmatrix} \frac{189}{*} \\ = 1? $ 467 63 $ + b + c, p \neq 0 \text{ and} $	(B) (D)	both the asterisks in 21 189 +c) p = (b + c - a)	1	The r was 3 If the Mon (A) (C)	mean temperat 37°C and from e temperature day, the tempe 37°C 35°C	ture from Mo Tuesday to on Thursda erature on Th (B) (D)	onday to Wednesda Thursday was 34°C y was 4/5 th that o hursday was : 34°C 36°C	5. of
	$\left(\frac{21}{*}\right)$ (A) (C) If a -	th number should $ \begin{pmatrix} \frac{189}{*} \\ = 1? $ 467 63 $ + b + c, p \neq 0 \text{ and} $	(B) (D)	both the asterisks in 21 189	148.	The r was 3 If the Mon (A) (C) The c start	mean temperat 37°C and from e temperature day, the tempe 37°C 35°C distance betwe s from the	ture from Mo Tuesday to on Thursda erature on T (B) (D) een two tow first town	onday to Wednesda Thursday was 34°C y was 4/5 th that o hursday was : 34°C 36°C ns is 800 km. A ca with a speed o	r f
44.	$\left(\frac{21}{*}\right)^{(A)}$ (A) (C) If a - q = (c)	th number should $ \begin{pmatrix} \frac{189}{*} \\ = 1? $ 467 63 $ + b + c, p \neq 0 \text{ and} $	(B) (D)	both the asterisks in 21 189 +c) p = (b + c - a)	148.	The r was 3 If the Mon (A) (C) The c start 30 km the se	mean temperat 37°C and from e temperature day, the tempe 37°C 35°C 35°C distance betwe s from the n/hr. At the sa econd town w	ture from Mo Tuesday to on Thursda erature on Th (B) (D) een two tow first town ame time, and with a speed	onday to Wednesda Thursday was 34°C y was 4/5 th that o hursday was : 34°C 36°C ns is 800 km. A ca	rfne

146.	ataj	lls a bicycle to profit of 25%. I) of the bicycle	f C pays ₹22	of 20%. B sells it to C 5 for it, the cost price		(A) (C)	500 300	(B) (D)	200 400	146.
	(A)	150	(B)	110				9 S		
	(C)	120	(D)	125	150.	A bu	vs an article fo	vr₹1600 and	gets two successive	
147.	3 lea	ps of the cat are	e equal to 4 le	4 leaps of cat, but aps of the rat. What to that of the cat ?		disco repa	ounts of 20% a	nd 10%. H	e spends 20% on its	
	(A)	15:16	(B)	11:15		(A)	₹ 1728	(B)	₹ 2030	
	(C)	15:11	(D)	16:15	005	(C)	₹ 1850	(D)	₹ 1690	
1			- and the second	SPACE FOR R	OUG	HWC	ORK			-

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एक लेबि तदर् (A)

PART - D

ENGLISH COMPREHENSION

Directions : In question numbers 151 to 155, some parts of the sentences have errors and some are correct. Find out which part of a sentence has an error and blacken the oval [] corresponding to the appropriate letter (A, B, C). If a sentence is free from error, blacken the oval corresponding to (D) in the Answer Sheet.

1

151. The cruel lady made / her step-daughter to do / (A) (B)

> all the household chores. / No Error. (C) (D)

My sister asked me / that how long / 152. (A) (B)

> I would stay there. / No Error. (D) (C)

153. The teacher, as well as the students, / (A)

have gone on an excursion /

(B)

160 Ho was not a man

(D)

intelligence

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word

in the

164.

165.

166.

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Choose

169.

170.

to Oooty during their summer vacation. / No Error. (D) (C)

The US / don't want / India in the Security Council./ 154. (B) (A) (C)

> No Error. (D)

You can eat / as much as you like / 155. (A) (B)

> at the newly lunch bar. / No Error. (D) (C)

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100.	116 4	vas not a man		intemgence.
	(A)	absent of	(B)	empty of
	(C)	lacking of	(D)	devoid of

having been completed

Directions: In question numbers 161 to 163, out of the four alternatives, choose the one which best expresses the meaning of the given word and mark it in the Answer Sheet. 161. Advocate:

(A)	determine	(B)	predict
(C)	pronounce	(D)	support

Preamble: 162. definition introduction (A) (B) conclusion mediation (D) (C)

Students are asked to collate for an important 163. programme by the principal. prescribe (A) assemble (B) describe (D) narrate (C)

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Directions: In question numbers 156 to 160, sentences are given with blanks to be filled with an appropriate word(s). Four alternatives are suggested for each question. Choose the correct alternative out of the four and indicate it by blackening the appropriate oval [) in the Answer Sheet. 156. He was assured by his friends ______ every type of help in an emergency. (A) with about (B) (D) of (C) by Our monthly expenditure _____ by five 157. hundred rupees when we decided to buy milk from the milkman. lifted up (A) (B) grew up shot up (D) gotup (C)of the Id _ the people looked well enough, but 158. 167. when one looked more closely one saw that their faces were filled with despair. On first sight (A) At first sight (B) At first looking (C) At first observation (D) The work ______, he left his office. 159. 168. on being finished (A) having been over (B) having completed (C)

Directions: In question numbers 164 to 166, choose the word opposite in meaning to the given word and mark it in the Answer Sheet.

164. Accolade:

(A)	decorate	(B)	permeate
(C)	blame	(D)	reticent

Ambiguous: 165.

(A)	simple	(B)	easy
(C)	plain	(D)	clear

166. Wary:

(A)	thrifty	(B)	rash
(C)	conscientious	(D)	daring

Directions: In question numbers 167 to 171, four alternatives are given for the Idiom\Phrase underlined. Choose the alternative which best expresses the meaning of the Idiom\Phrase and mark it in the Answer Sheet.

167. I am out of my wits and therefore cannot find a way to solve the problem immediately.

- (A) totally ignorant
- (B) not intelligent enough
- (C) greatly confused
- (D) helpless without power
- Villagers always call a spade a spade. 168.
 - (A) to speak ill about someone
 - (B) to speak about spades
 - (C) to speak in a straightforward manner
 - (D) to call someone a spade
- To play second fiddle. 169.
 - to do back seat driving (A)
 - (B) to be happy, cheerful and healthy
 - to reduce the importance of one's senior (C)
 - take a subordinate role (D)

Directions: In question numbers 172 to 181, a sentence/ part of the sentence is underlined. Below are given alternatives to the underlined sentence/part of the sentence at (A), (B) and (C) which may improve the sentence. Choose the correct alternative. In case no improvement is needed your answer is (D).

- 172. During his long discourse, he did not touch that point.
 - (A) touch upon
- (B) touch in
- touch of (C)
- No improvement (D)
- The workers are hell bent at getting what is due to 173. them.
 - hell bent on getting (A)
 - hell bent for getting (B)
 - hell bent upon getting (C)
 - No improvement (D)
- While crossing the highway, a five year old child 174. was knocked out by a passing car.
 - (A) away (C) down
 - (B) up (D)
 - No improvement
- We are looking forward to see you tomorrow. 175.
 - looking forward towards seeing (A)
 - looking forward for seeing (B)
 - looking forward to seeing (C)
 - No improvement (D)
- The clients are waiting outside since morning and 176. will continue to wait until you meet them.
 - (A) have waited (C)were waiting
- have been waiting (B) (D)
 - No improvement
- If he had time he will call you. 177.
 - (A) would have (B) would have had (C) has
 - (D) No improvement
- He may have grown taller when I last saw him. 178.

(A) from when I last saw him

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- 170. Mary broke a dining-room window and had to face the music when her father got home.
 - (A) listen to music
 - accept the punishment (B)
 - (C) listen carefully
 - (D) ask a lot of questions
- Why are you jumping down my throat ? I wasn't 171. important even in the house when it happened.
 - forcing me to eat (B) running away (A)
 - making a joke (D) scolding me (C)

- since I last saw him (B)
- before I last saw him (C)
- No improvement (D)
- 179. He who will bid the highest will get the product.
 - who bids the highest (A)
 - who the highest bids (B)
 - who would bid the highest (C)
 - No improvement (D)

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John had told me that he hasn't done it yet. 180. (A) told (B) tells was telling No improvement (C) (D)

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They could not tell me why did he not eat his lunch. 181.

- why not had he eaten (A)
- why he did not eat (B)
- why had he not eaten (C)
- (D) No improvement

Directions: In question numbers 182 to 188, out of the four alternatives, choose the one which can be substituted for the given words / sentence and indicate it by blackening the appropriate oval [] in the Answer Sheet.

182. One who cannot be corrected :

(A)	Invulnerable	(B)	Incurable
(C)	Incorrigible	(D)	Hardened

183. A general pardon granted by the Government to political offenders.

(A)	Amnesty	(B)	Pardon
(C)	Excuse	(D)	Honesty

184. Detailed plan of a journey :

(A)	Itinerary	(B)	Travelogue
(C)	Travel kit	(D)	Schedule

- Stealing of ideas or writings of someone else. 185.
 - plagiarism (A) (B) autism scepticism (C) mesmerism (D)
- One who hates women : 186.

(A)	Misanthrope	(B)	Misogynist	
(C)	Misogamist	(D)	Ambivert	

- 187. A school boy who cuts classes frequently is a :
 - (A) Martinet (B) Defeatist

Directions: In question numbers 191 to 200, you have two passages with 5 questions in each passage. Read the passages carefully and choose the best answer to each question out of the four alternatives and mark it by blackening the appropriate oval [) in the Answer Sheet.

Passage - I (Question numbers 191 to 195):

The World Health Organisation is briefly called W.H.O. It is a specialised agency of the United Nations and was established in 1948.

International health workers can be seen working in all kinds of surroundings : in deserts, jungles, mountains, coconut groves, and rice fields. They help the sick to attain health and the healthy to maintain their health.

This global health team assists the local health workers in stopping the spread of what are called communicable diseases, like cholera. These diseases can spread from one country to another and so can be a threat to world health.

W.H.O. assists different national health authorities not only in controlling diseases but also in preventing them altogether. Total prevention of diseases is possible in a number of ways. Everyone knows how people, particularly children, are vaccinated against one disease or another. Similarly, most people are familiar with the spraying of houses with poisonous substances which kill disease-carrying insects.

191. "International health workers can be seen working in all kinds of surroundings : in deserts, jungles, mountains, coconut groves, and rice fields". Here International means:

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Passage

pretend reasons: pecause sleep wit I think it suspense call, that keep rin speaking horrible. nd beca

194.

195.

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÷	(C)	Sycophant	(D)	Truant	1	(A)	belonging to an organisation which has	and beca
188.	A per	rson who consum	es huma	an flesh ·		(B)	something to do with different nations. belonging to the whole world	waiting t
		and the second				(B)		are half s
	(A)	Carnivore	(B)	Cannibal		(C)	drawn from all countries of the world	
	(C)	Javage	(D)	Captor		(D)	believing in cooperation among nations	with cheater time you!
Dire	Directions: In question numbers 189 and 190, four words		192.	"Tot	al prevention of diseases is possible in a number	by the co		
are g	iven in	each question, ou	t of whi	ich only one word is		of wa	ays". The author has given illustrations of :	
corre	ctly sp	elt. Find the corr	ectly sp	elt word and mark		(A)	only two such ways	restlessly
your	your answer in the Answer Sheet.		1	(B)	only one such way	Ify		
189.						that it ter		
		re along with adv				(C)	more than two such ways	
			and the second	0,		(D)	none of these ways	you are as
	(A)	foreign	(B)	foriegn	100	// 771		or when w
	(C)	foreegn	(D)	forigen	193.		y help the sick to attain health and the healthy	bath. Are
						to ma	aintain their health". Here <i>they</i> stands for :	and and and
190.		laboratories are _		with high-tech	1.00	(A)	jungles	pourself.
	electr	onic gadgets.		1000 C	1.1.1	(B)	deserts	time". You
	(A)	equepped	(B)	equipped	- 16	(C)	rice fields	news or m
	(C)	equpped	(D)	eqiuped		(D)	international health workers	

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- 194. "It is a specialised agency of the United Nations and was established in 1948." Here specialised means :
 - (A) uncommon
 - (B) made suitable for a particular purpose
 - (C) expert
 - (D) extraordinary
- 195. "W.H.O. assists different national health authorities not only in controlling diseases but also in preventing them altogether". The above sentence implies that:
 - (A) W.H.O. assists both in controlling diseases and in preventing them.
 - (B) W.H.O. assists many others in addition to the national health authorities.
 - (C) W.H.O. assists more in preventing diseases than in controlling them.
 - (D) W.H.O. assists in controlling diseases only if they have not been prevented.

Passage - II (Question numbers 196 to 200) :

Why don't I have a telephone ? Not because I pretend to be wise or pose as unusual. There are two chief reasons; because I don't really like the telephone, and because I find I can still work and play, eat, breathe, and sleep without it. Why don't I like the telephone ? Because I think it is a pest and time waster. It may create unnecessary suspense and anxiety, as when you wait for an expected call, that doesn't come; or irritating delay, as when you keep ringing a number that is always engaged. As for speaking in a public telephone booth, it seems to me really horrible. You would not use it unless you were in a hurry, and because you are in a hurry, you will find other people waiting before you. When you do get into the booth, you are half suffocated by the stale, unventilated air, flavored with cheap face-powder and chain smoking; and by the time you have begun your conversation your back is chilled by the cold looks of somebody who is moving about restlessly to take your place. If you have a telephone in your house, you will admit that it tends to ring when you least want it to ring; when you are asleep, or in the middle of a meal or a conversation, or when you are just going out, or when you are in your bath. Are you strong minded enough to ignore it, to say to yourself. "Ah well, it will be all the same in hundred years time". You are not. You think there may be some important news or message for you. Have you never rushed dripping

from the bath, of chewing from the table, or dazed from bed, only to be told that you are a wrong number? You were told the truth. In my opinion all telephone numbers are wrong numbers. If, of course, your telephone rings and you decide not to answer it, then you will have to listen to an idiotic bell ringing and ringing in what is supposed to be the privacy of your own home. You might as well buy a bicycle bell and ring it yourself.

- 196. '..... your back is chilled by the cold looks of somebody' means:
 - (A) people are very cold
 - (B) others look at you angrily
 - (C) you feel cold at the back
 - (D) you feel uneasy because the person next in the queue looks at you restlessly
- 197. 'All telephone numbers are wrong numbers', because :
 - (A) the author always gets wrong calls
 - (B) whenever he tries it always goes wrong.
 - (C) he doesn't give much importance to telephone and telephone numbers.
 - (D) none of the statements given above.
- 198. The author does not have a telephone because :
 - (A) he thinks that it can create unnecessary suspense and anxiety.
 - (B) he pretends to be wise
 - (C) he poses as unusual
 - (D) he would prefer to do something else
- 199. 'Ah well, it will be all the same in hundred years time'. This sentence means :
 - (A) One should be strong minded.
 - (B) Nothing is going to change even if you don't answer the telephone bell.
 - (C) Things have not changed for the past 100 years.
 - (D) Things will remain the same for 100 years to

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come.

- 200. He hates speaking in a public telephone booth because:
 - (A) the other side may not know your number
 - (B) it is costlier
 - (C) he is suffocated by the stale, unventilated air, flavoured with cheap face powder and chainsmoking.
 - (D) others look at him angrily

-000-

333 PJ 3

