Test Form No. टेस्ट फॉर्म सं. 055 QI 6

BD 2011

Time Allowed: 2 Hours (For V.H. (low vision) Candidates: 2 hr. 40 min.)

Maximum Marks: 200

निर्धारित समय : 2 घंटे (दृष्टिबाधित (कम दृष्टि) उम्मीदवारों के लिए : 2 घण्टे 40 मिनट)

अधिकतम अंक : 200

Read the following instructions carefully before you begin to answer the questions. This booklet contains questions in English as well as in Hindi.

प्रश्नों के उत्तर देने से पहले निम्नलिखित अनुदेशों को ध्यान से पढ़ लें। इस पस्तिका में प्रश्न अंग्रेजी तथा हिन्दी दोनों में दिये गये हैं।

INSTRUCTIONS TO CANDIDATES

- This Booklet contains 200 questions in all comprising the following four parts:
 - Part A: General Intelligence & Reasoning (50 Questions)
 - Part B: General Awareness
- (50 Questions)
- Part C: Numerical Aptitude
- (50 Questions)
- Part D: English Comprehension
- All questions are compulsory and carry equal marks.
- (50 Questions)
- Before you start to answer the questions you must check up this Booklet and ensure that it contains all the pages (1-40) and see that no page is missing or repeated. If you find any defect in this Booklet, you must get it replaced immediately.
- The paper carries negative marking. 0.25 marks will be deducted for each wrong answer.
- You will be supplied the Answer-Sheet separately by the Invigilator. You must complete the details of Ticket Number, Roll Number and Test Form Number on Side-I of the Answer-Sheet carefully before you actually start answering the questions. You must also put your signature on the Answer-Sheet at the prescribed place. These instructions must be fully complied with, failing which, your Answer-Sheet will not be evaluated and you will be awarded 'ZERO' mark. (For V.H. candidates these details will be filled in by the scribe. However all V.H. candidates must put their left-hand thumb impression at the space provided in the Answer-Sheet. In addition, those V.H. candidates who can sign should also put their signatures in addition to thumb impression.)
- Answers must be shown by completely blackening the corresponding rectangles on Side-II of the Answer-Sheet against the relevant question number by HB pencil only. Answers which are not shown by HB pencil will not be awarded any mark.
- A machine will read the coded information in the OMR Answer-Sheet. In case the information is incomplete/different from the information given in the application form, the candidature of such candidate will be treated as cancelled.
- 8. The Answer-Sheet must be handed over to the Invigilator before you leave the Examination Hall.
- Failure to comply with any of the above instructions will render a candidate liable to such action/penalty as may be deemed fit.
- 10. The manner in which the different questions are to be answered has been explained at the back of this Booklet (Page No. 40), which you should read carefully before actually answering the questions.
- 11. Answer the questions as quickly and as carefully as you can. Some questions may be difficult and others easy. Do not spend too much time on any question.
- 12. In lieu of Questions No. 46 to 50 and 147 to 150 relating to figural and graph portions, alternate questions have been provided to be attempted by V.H. candidates only.
- 13. No rough work is to be done on the Answer-Sheet. Space for rough work has been provided below the questions in Part A and Part C of this Booklet.

उम्मीदवारों के लिए अनुदेश

इस पुस्तिका में कुल 200 प्रश्न हैं, जिनमें निम्नलिखित चार भाग

भाग – क	ः सामान्य बुद्धि और तर्क	(50 ਸ਼ਝਜ)
भाग – ख	ः सामान्य जानकारी	(50 प्रश्न)
	: सांख्यिकीय अभिक्षमता	(50 प्रश्न)
भाग – घ	ः अंग्रेजी परिज्ञान	(50 ਪ੍ਰਝਜ)

- सभी प्रश्न अनिवार्य हैं तथा सबके बराबर अंक हैं।
- 3. प्रश्नों के उत्तर देने से पहले आप इस पुस्तिका की जाँच करके देख लें कि इसमें पूरे पृष्ठ (1-40) हैं तथा कोई पृष्ठ कम या दुबारा तो नहीं आ गया है । यदि आप इस पुस्तिका में कोई त्रुटि पाएँ, तो तत्काल इसके बदले दूसरी पुस्तिका ले लें।
- प्रश्न पत्र में नकारात्मक अंकन होगा । हर ग़लत उत्तर के लिए 0.25 अंक काटा जाएगा ।
- निरीक्षक द्वारा आपको उत्तर-पत्रिका अलग से दी जाएगी । प्रश्नों के उत्तर वास्तव में शुरू करने से पहले आप उत्तर-पत्रिका के Side-I में अपना टिकट नम्बर, रोल नम्बर तथा टेस्ट फॉर्म संख्या अवश्य लिखें । उत्तर-पत्रिका पर निर्धारित स्थान में आप अपने हस्ताक्षर भी अवश्य करें । उपर्युक्त अनुदेशों का पूरी तरह अनुपालन किया जाए, अन्यथा आपकी उत्तर-पत्रिकों को जौँचा नहीं जाएगा और 'शून्य'अंक दिया जाएगा । (दृष्टिबाधित उम्मीदवारों के लिए यह विवरण लिपिक द्वारा भरा जाए । परन्तु सभी दृष्टिबाधित उम्मीदवार उत्तर-पत्रिका में निर्धारित स्थान पर अपने बाएँ हाथ के अंगूठे का निशान अवश्य लगाएँ । इसके अतिरिक्त, जो दृष्टिबाधित उम्मीदवार हस्ताक्षर कर सकते हैं, वे अंगूठे के निशान के अलावा अपने हस्ताक्षर भी कर दें ।)
- उत्तर-पत्रिका में सभी उत्तर Side-II में प्रश्न संख्या के सामने दिये गये सम्बन्धित आयताकार खानों को HB पेंसिल से पूरी तरह काला करके दिखाएँ । जो आयताकार खाने HB पेंसिल से नहीं भरे जाएँगे, उनके लिए कोई अंक *नहीं* दिया जाएगा ।
- ओ.एम.आर. उत्तर-पत्रिका में भरी गई कूट सूचना को एक मशीन पढ़ेगी । यदि सूचना अपूर्ण है अथवा आवेदन प्रपत्र में दी गूई सूचना से भिन्न है, तो ऐसे अभ्यर्थी की अभ्यर्थिता निरस्त समझी जाएगी।
- परीक्षा-भवन छोड़ने से पहले परीक्षार्थी को उत्तर-पत्रिका निरीक्षक के हवाले कर देनी चाहिए।
- 9. ऊपर के अनुदेशों में से किसी एक का भी पालन न करने पर उम्मीदवार पर विवेकानुसार कार्यवाही की जा सकती है या दण्ड दिया
- 10. विभिन्न प्रश्नों के उत्तर देने की विधि इस पुस्तिका के पीछे (पृष्ठ संख्या 40) में छपे हुए निर्देशों में दे दी गई है, इसे आप प्रश्नों के उत्तर देने से पहले ध्यानपूर्वक पढ़ लें।
- 11. प्रश्नों के उत्तर जितनी जल्दी हो सके तथा ध्यानपूर्वक दें । कुछ प्रश्न आसान तथा कुछ कठिन हैं । किसी एक प्रश्न पर बहुत अधिक समय न लगाएँ ।
- 12. आकृति और आलेख से सम्बन्धित प्रश्न संख्या 46 से 50 एवं 147 से 150 के बदले में केवल दृष्टिबाधित उम्मीदवारों द्वारा हल किए जाने के लिए वैकल्पिक प्रश्न दिए गए हैं।
- 13. कोई रफ़ कार्य उत्तर-पत्रिका पर नहीं करना है । रफ़ कार्य के लिए स्थान इसी पुस्तिका के भाग क तथा भाग ग के प्रश्नों के नीचे दिया गया है।

इस पुस्तिका की सील तब तक न खोलें जब तक कहा न जाए

PART A GENERAL INTELLIGENCE & REASONING PNLJ: IGEC:: VTRP:? Directions: In questions no. 1 to 9, select the 8. related letters/words/numbers from the given RSTU (B) OMKI (A) alternatives. **RPOM** (D) **QSRC** (C)

6:64::11:? 1. 169 (B) 144 (A) (D) 124 121 (C)

9.

123:4::726:? 2.

(A) Feathers

Fur

Writer: Pen::?

(A) LRBAGEA

(C) LERAGBA

TRQS

KLMJ

IUVW

(A) RQTS

(C)

(A)

(C)

Needle: Tailor

Artist: Brush

Painter : Canvas

Teacher: Class

BDAC: FHEG:: NPMO:?

FGHI: OPQR:: BCDE:?

(C)

(A)

(B)

(C)

(D)

3.

4.

5.

6.

7.

(B)

(D)

26 12

(C) 14 Fish: Scales:: Bear:?

(A) 23

(B)

(D)

NUMERAL: UEALRMN:: ALGEBRA:?

(B)

(D)

(B)

(D)

(B)

(D)

BARLAGE

LERABGA

QTRC

RTQS

KLMN

STUW

Leaves

Skin

Directions: In questions no. 10 to 15, find the odd number/letters/word from the given alternatives.

(A)

(C)

(A)

(C)

(A)

(C)

(A)

(C)

(A)

(C)

(A)

(C)

10.

11.

12.

13.

14.

15.

SPACE FOR ROUGH WORK

(A)

(C)

17:60::20:?

57

81

162

567

156

273

Flute

Guitar

Prod

Jab

JKOP.

CABD

CAFD

IGLJ

69

93

405

644

201

345

Violin

Sitar

Sap

Thrust

MNST

OPWX

TSWV

OMRP

(B)

(D)

16.	are	skipped in betwich of the follow	een b	, number of letters y a particular rule. series observes the	20.	plac			when sequentially given letter series
to the second	(A)	ABFGJK	(B)	ACFJOU	\$ T		<u>k</u> cbocabcbac	ab_cba_	_ab
	(C)	MPQSTV	(D)	ADFHJL	85	(A)	cabcb	(B)	abccb
17.	belo			abers that does not	Dire	(C)	bacbc	(D)	bcaba 21 to 24 a series is
	(A)	11 – 115	(B)	10 – 90					issing. Choose the
	(C)	9 – 72	(D)	8 – 56	corre	ct al			ven ones that will
450				ven responses would r of the following?	21.	4, 1	96, 16, 169, ?,	144, 64	
.8				(S) (A) - AP		(A)	21	(B)	81
18.	1.	Major	2.	Captain		(C)	36	(D)	32
	3.	Colonel	4.	Brigadier			17		
	5.	Lt. General			22.	8, 1	5, 36, 99, 288,	?	Tarres 1
	(A)	5, 4, 3, 1, 2	(B)	5, 1, 4, 2, 3		(A)	368	(B)	676
	(C)	4, 5, 1, 3, 2	(D)	3, 4, 2, 5, 1			13.14.15.74		A RANGE OF THE STATE OF THE STA
				, प्राडारी, (छ)		(0)	855	(D)	908
		s: Arrange the e dictionary.	follo	wing words as per	23.	XYZ	CBAUVWFE	?	?
9						(A)	DR	(B)	RS
19.	1.	Dissident	2.	Dissolve		(C)	DS	(D)	MN
	3.	Dissent	4.	Dissolute					SOUR CO.
	5.	Dissolution			24.	reoc	, pgme, nikg, ll	kii, _ ?	
	(A)	3, 1, 4, 5, 2	(B)	3, 2, 1, 4, 5		(A)	acef	(B)	- jmgk
	(C)	3, 1, 4, 2, 5	(D)	3, 2, 4, 5, 1		(C)	efgh	(D)	wxyz

Among her children, Ganga's favourites are 29. 25. Five boys A, B, C, D, E are sitting in a park Ram and Rekha. Rekha is the mother of in a circle. A is facing South-West, D is Sharat, who is loved most by his uncle facing South-East, B and E are right Mithun. The head of the family is Ram Lal, opposite A and D respectively and C is who is succeeded by his sons Gopal and equidistant between D and B. Which Mohan. Gopal and Ganga have been married direction is C facing? for 35 years and have 3 children. What is the relation between Mithun and Mohan? (A) West (B) South North (D) (A) Uncle East (B) Son At what time are the hands of clocks 30. (C) Brother (D) No relation together between 6 and 7? (A) $32\frac{8}{11}$ minutes past 6 26. Find the wrong number in the series. 6, 9, 15, 22, 51, 99 (B) $34\frac{8}{11}$ minutes past 6 (A) 99 51 (C) 22 (D) 15 (C) $30\frac{8}{11}$ minutes past 6 In a row of girls, Kamla is 9th from the left 27. and Veena is 16th from the right. If they (D) $32\frac{5}{7}$ minutes past 6 interchange their positions, Kamla becomes 25th from the left. How many girls are there

31.

(A) 34 (B) 36 (C) 40 (D) 41

(B)

(D)

Ravi has spent a quarter $\left(\frac{1}{4}\right)$ of his life as a 28. boy, one-fifth $\left(\frac{1}{5}\right)$ as a youth, one-third $\left(\frac{1}{3}\right)$ as a man and thirteen (13) years in old age. What is his present age?

in the row?

70 years

60 years

(A)

(C)

- 80 years
- 65 years (C)

32.

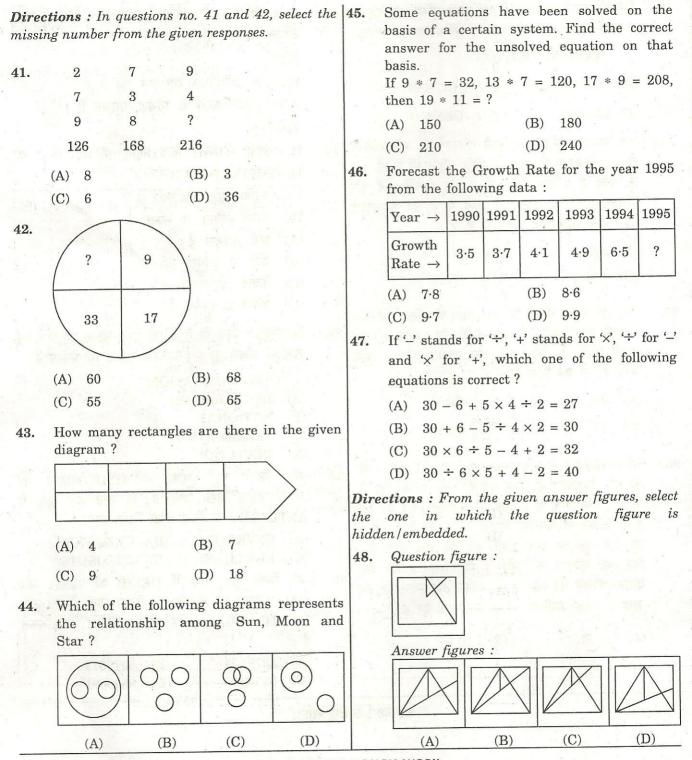
- Out of 100 families in the neighbourhood, 50 have radios, 75 have TVs and 25 have VCRs. Only 10 families have all three and
- each VCR owner also has a TV. If some families have radio only, how many have only TV? (A) 30
- (B) (C) 40 (D)
- Suresh was born on 4th October 1999. Shashikanth was born 6 days before Suresh.
- The Independence day of that year fell on Sunday. Which day was Shashikanth born? (A) Tuesday Wednesday (B) Monday

(D)

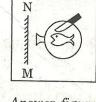
Sunday

SPACE FOR ROUGH WORK

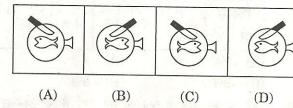
33. From the given alternative words, select the 37. Two statements are given followed by four word which cannot be formed using the inferences. Select the alternative which is letters of the given word: most appropriate. 'CONCENTRATION' Statements: (A) CONCERN NATION (B) India is becoming industrialised. (C) TRAIN (D) CENTRE Pollution is a problem associated with industrialisation. In a certain office, 1/3 of the workers are 34. Inferences : women, 1/2 of the women are married and 1/3 All industrial centres are polluted. of the married women have children. If 3/4 of II. India is polluted. the men are married and 2/3 of the married III. Polluted nations are industrialised. men have children, then what part of workers IV. India may become polluted. are without children? (A) All are appropriate (A) 5/18 (B) 4/9 (B) None is appropriate Only IV is appropriate 11/18 (C) (C) (D) 17/36 Only II is appropriate (D) 35. If a man on a moped starts from a point and 38. From the given alternative words, select the rides 4 km South, then turns left and rides 2 word which can be formed using the letters km to turn again to the right to ride 4 km of the given word: more, towards which direction is he moving? 'DETERMINATION' (A) North (B) West (A) DECLARATION (C) East (D) South (B) NATIONAL (C) TERMINATED Ganesh cycles towards South-West 36. DEVIATION (D) distance of 8 m, then he moves towards East a distance of 20 m. From there he moves If in a certain code HYDROGEN is written 39. towards North-East a distance of 8 m, then as JCJZYSSD, then how can ANTIMONY be he moves towards West a distance of 6 m. written in that code? From there he moves towards North-East a CPVKOQPA (B) **CRZQWABO** distance of 2 m. Then he moves towards ERXMQSRC (D) GTZOSUTE West a distance of 4 m and then towards South-West 2 m and stops at that point. If DELHI is coded as 73541 and CALCUTTA 40. How far is he from the starting point? as 82589662, then how can CALICUT be coded? (A) 12 m (B) 10 m (A) 5279431 (B) 5978013 (C) 8 m (D) 6 m (C) 8251896 (D) 8543691 SPACE FOR ROUGH WORK 2/3×3/4 1/3



Directions: If a mirror is placed on the line MN, then which of the answer figures is the correct image of the given question figure? 49. Question figure:



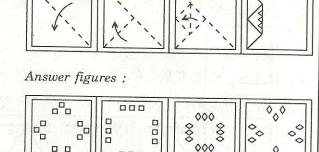
Answer figures:



Directions: A piece of paper is folded and cut as shown below in the question figures. From the given answer figures, indicate how it will appear when opened.

50. Question figures:

(A)



(C)

(B)

FOR VISUALLY HANDICAPPED CANDIDATES ONLY

Select the letters that complete the first word and begin the second from the given

FLO(?) TACK

alternatives.

(A) CK (B) (C) AT (D)

UR At an election 1/2 of voters vote for Anand,

half of the remaining vote for Bhuvan and half of the remaining vote for Chaman. 840 persons did not vote. What percent of

the entire list did not vote? (A) 8.4 (C) 12.4

(B) 8.5 (D) 12.5

OR

46.

47.

48.

Amit is shorter than Biju but taller than Chand. Dhruv is shorter than Amit but taller

taller than Amit. Who is the tallest person? (A) Biju (C)

(B) Ekta Amit (D) Dhruv Four books are kept on each other. K is on

A, C is below B. If A is above B, then which

than Chand and Ekta is shorter than Biju but

(A) K (C)

(B)

A (D)

book is at the top?

50.

In a brick furnace there were 100 bricks, out of which $\frac{1}{4}$ of them were broken into two

and $\frac{1}{5}$ of them broken into three pieces in

the process of heating. How many full bricks were remaining?

(A) 40 (B) 45 (C) 55 (D) 56

SPACE FOR ROUGH WORK

(D)

PART B

GENERAL AWARENESS

51.

Judicial review in the Indian Constitution is 56. When there is an official change in the based on exchange rate of domestic currency, then it (A) Rule of Law is called (B) Due process of Law (A) Appreciation Procedure established by Law Depreciation (D) Precedents and Conventions (C) Revaluation Deflation 52. The Drafting of the Constitution completed on Inflation redistributes income and wealth in 57. 26th January 1950 (A) favour of 26th December 1949 (B) (A) Pensioners 26th November 1949 (B) Poor (D) 30th November 1949 Middle class (C) Who was the President of the Constituent (D) Rich 53. Assembly? 58. The fringe benefit tax was introduced in the (A) Pt. Jawahar Lal Nehru budget of (B) Sardar Patel (A) 2003 - 04Dr. Rajendra Prasad (C) (B) 2004 - 05(C) 2005 - 06Dr. B.R. Ambedkar (D) (D) 2006 - 0754. Which innovative discussion 59. In the Budget estimates for 2011-12, an process introduced by the Indian Parliament to the allocation of ₹ 400 crore has been made to World Parliamentary systems? bring in a green revolution in the East in the cropping system of Question hour (A) (A) Wheat (B) Zero hour (B) Rice (C) Jowar Pulses (D) (C) Resolutions (D) Presidential speech 60. As announced by the Finance Minister in his budget speech on 28-2-2011, the income tax The Judges of the Supreme Court retire at 55. exemption limit for individuals other than the age of senior citizens and women has been raised to (A) 60 years (B) 65 years ₹ 1,80,000 ₹ 1,90,000 (B) (C) 62 years (D) 58 years (C) ₹ 2,00,000

(D)

₹ 2,50,000

	among the following British persons itted the Revolt of 1857 as a national lt?	66.	The (A)	lowest layer of Stratosphere	the at	mosphere is
(A)	Lord Dalhousie		(B)	Thermosphere		
(B)	Lord Canning		(C)			
(C)	Lord Ellenborough			Troposphere		
(D)	Disraeli		(D)	Mesosphere		
		-				
The Cha	Greek ambassador sent to ndragupta Maurya's court was	67.	The (A)	Konkan Railway Goa – Mangalor		nects
(A)	Kautilya		(B)	Roha – Mangalo	ore	
(B)	Seleucus Nicator		(C)	Kanyakumari –		ralore
(C)	Megasthenes					
(D)	Justin	- 1989	(D)	Kanyakumari –	Mum	baı
		CO	D 1	C. 11:		1,
	tify the European power from whom aji obtained cannons and ammunition.	68.	(A)	Cinnamon	(B)	as a condiment – Clove
(A)	The French		(C)	Neem	(D)	Palm
(B)	The Portuguese					
(C)	The Dutch	69.			Earth	a's land surface is
(D)	The English		dese	ert ?		
			(A)	1/10 th	(B)	1/5 th
The	call of "Back to the Vedas" was given by		(C)	1/3 rd	(D)	1/6 th
(A)	Swami Vivekananda					
(B)	Swami Dayanand Saraswati	70.	Whi	ch of the followi	ing is	called the 'shrimp
(C)	Aurobindo Ghosh		capi	tal of India'?		
(D)	Raja Ram Mohan Roy		(A)	Mangalore	(B)	Nagapatnam
	on Commission was boycotted by the		(C)	Kochi	(D)	Nellore
(A)	they felt that it was only an eyewash	71.	Rive	r Indus originat	es fro	m
(B)	all the members of the Commission were English		(A)	Hindukush ran	ge	
(C)	the members of the Commission were		(B)	Himalayan rang		
(D)	biased against India it did not meet the demands of the		(C)	Karakoram ran	ge	
	Indians		(D)	Kailash range		

72.	The atmospheric air is held to the Earth by	77. Who was the architect of North and South
	(A) gravity	Blocks of the Central Secretariat in Delhi?
	(B) winds	(A) Sir Edward Lutyens
	(C) clouds	(B) Herbert Baker
	(D) rotation of the Earth	(C) Robert Tor Russell
		(D) Antonin Raymond
73.	The function of ball bearings in a wheel is	
10	(A) to increase friction	78. Saliva helps in the digestion of
	(B) to convert kinetic friction into rolling	(A) Fats (B) Starch
	friction	(C) Proteins (D) Vitamins
	(C) to convert static friction into kinetic friction	
	The second secon	79. The longest bone in the human body is
	(D) just for convenience	(A) Ulna (B) Humerus
74.	'Shock-absorbers' are usually made of steel as it	(C) Femur (D) Tibia
	(A) is not brittle	80. Red data book gives information about species which are
	(B) has lower elasticity	(A) extinct (B) endangered
	(C) has higher elasticity	(C) dangerous (D) rare
	(D) has no ductile property	
		81. Which of the following is the smallest bird?
75.	The first computer made available for	(A) Pigeon
	commercial use was	(B) Parrot
	(A) MANIAC (B) ENIAC	(C) Humming bird
	(C) UNIVAC	(D) House sparrow
	(D) EDSAC	ा प्राप्तीय के संस्था में संस्था है जिस्से हैं। जो क
olen.		82. The time period of a pendulum when taken to the Moon would
76.	A communication network which is used by large organizations over regional, national or	
	global area is called	(B) decrease
	(A) LAN (B) WAN	(C) become zero
	(C) MAN (D) VAN	(D) increase

Indian Army's Operation 'Saiyam' was related to	
(A) Kashmir	(A) pisciculture tank
(B) Indo-China Border in the Central Region	(B) agricultural land
(C) North-East	(C) zoo
(D) Indo-Pak Border in Punjab and Rajasthan	(D) aquarium
Which of the following could be used as fuel in propellant or rockets?	89. The constituents of automobile exhaust that can cause cancer is/are
(A) Liquid Hydrogen + Liquid Nitrogen	(A) Oxides of nitrogen
(B) Liquid Oxygen + Liquid Argon	(B) Carbon monoxide
(C) Liquid Nitrogen + Liquid Oxygen	(C) Polycyclic hydrocarbons
(D) Liquid Hydrogen + Liquid Oxygen	(D) Lead
The addition of gypsum to portland cement helps in	90. The optimum dissolved oxygen level (in mg/litre) required for survival of aquatic organisms is
(A) increasing the strength of cement	(A) 4-6 (B) 2-4
(B) rapid setting of cement	(C) 8-10 (D) 12-16
(C) preventing rapid setting of cement	
(D) reduction in the cost of cement	91. The world's only floating national park is situated in
White lung disease is prevalent among the workers of	(A) Manipur (B) Kuala Lumpur
(A) Paper industry	(C) Bilaspur
(B) Cement industry	(D) Dispur
(C) Cotton industry	amenia (
(D) Pesticide industry	92. According to the latest 'Education Development Index' based on a series of surveys conducted by the National
Iodoform is used as an	University of Education, Planning and Administration and released in February,
(A) antipyretic	2011, the state with the highest
(B) analgesic	Development Index is
(C) antiseptic	(A) Tamil Nadu (B) Kerala
(D) anaesthetic	(C) Punjab (D) Gujarat

The 'Project Snow Leopard' to conserve the endangered species, launched by the Union Ministry of Environment and Forests covers	96. Which of the following folk/tribal dances is associated with Uttar Pradesh?(A) Veedhi(B) Thora
the states of	(C) Tamasha (D) Rauf
(A) Jammu & Kashmir and Himachal	(C) Talliaslia (D) Tutul
Pradesh only	97. Which of the following books has been written by Atiq Rahimi?
(B) Jammu & Kashmir, Himachal Pradesh and Uttarakhand only	(A) Earth and Ashes
(C) Jammu & Kashmir, Himachal Pradesh,	(B) This Savage Rite
(C) Jammu & Kashmir, Himachal Pradesh, Uttarakhand and Arunachal Pradesh	(C) The Red Devil
only	(D) Witness the Night
(D) Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Arunachal Pradesh and	98. Who is the recepient of the Sahitya Akademi Award 2010 in Hindi Literature category?
Sikkim	(A) Uday Prakash
In the Railway Budget for 2011-12, an	(B) Laxman Dubey
outlay of ₹ 57,630 crore has been announced	(C) Nanjil Nandan
for adding new lines with length of	(D) Mangat Badal
(A) 1000 km	The state of the s
(B) 1200 km	99. The 2010 FIFA World Cup Final was held at
	(A) Paris
(C) 1300 km	(B) Berlin
(D) 1500 km	(C) Johannesburg
The strong earthquake-cum-tsunami which	(D) London
has moved Japan's main island by a few feet and has caused the Earth's axis to wobble is expected to lead to the shortening of the day by	100. Who of the following received Sangeet Natak Akademi's Ustad Bismillah Khan Yuva
(A) 1 C mismagaanda	(A) Omkar Shrikant Dadarkar
(A) 1.6 microseconds	(B) Ragini Chander Shekar
(B) 2·3 microseconds(C) 3·1 microseconds	(C) Abanti Chakravorty and Sukracharya Rabha
(D) 3.4 microseconds	. (D) K. Nellai Manikandan

PART C

NUMERICAL APTITUDE

101. The value of

$$\frac{3\sqrt{2}}{\sqrt{3}+\sqrt{6}} - \frac{4\sqrt{3}}{\sqrt{6}+\sqrt{2}} + \frac{\sqrt{6}}{\sqrt{3}+\sqrt{2}} \text{ is}$$

- (D) $3\sqrt{6}$
- 102. $\sqrt{6+\sqrt{6+\sqrt{6+\dots}}} = ?$
 - (A) 2·3
- (B) 3

(C) 6

- (D) 6·3
- 103. The square root of $\left(\frac{\sqrt{3} + \sqrt{2}}{\sqrt{3} \sqrt{2}}\right)$ is

 - (A) $\sqrt{3} + \sqrt{2}$ (B) $\sqrt{3} \sqrt{2}$

 - (C) $\sqrt{2} \pm \sqrt{3}$ (D) $\sqrt{2} \sqrt{3}$
- 104. The remainder when 3^{21} is divided by 5 is
 - (A) 1

(B)

(C) 3

- (D) 4
- 105. The value of $\frac{2\frac{1}{3} 1\frac{2}{11}}{3 + \frac{1}{3 + \frac{1}{3}}}$ is
 - (A)
- (B)

(C) 1

- (D) 109
- **106.** The last digit of $(1001)^{2008} + 1002$ is
 - (A) 0

3 (B)

(C) 4

6 (D)

- $\sqrt[3]{1 \frac{127}{343}}$ is equal to

 - (A) $\frac{5}{9}$ (B) $1 \frac{1}{7}$
- 108. If the sum of two numbers be multiplied by each number separately, the products so obtained are 247 and 114. The sum of the numbers is
 - (A) 19
- (B) 20
- (C) 21
- (D) 23
- 109. Find a number, one-seventh of which exceeds its eleventh part by 100.
 - (A) 1925
- (B) 1825
- (C) 1540
- (D) 1340
- 110. If $x * y = (x + 3)^2 (y 1)$, then the value of 5 * 4 is
 - (A) 192
- (B) 182
- (C) 180
- (D) 172
- 111. $\frac{(0.05)^2 + (0.41)^2 + (0.073)^2}{(0.005)^2 + (0.041)^2 + (0.0073)^2}$ is
 - (A) 10
- (B) 100
- 1000
- (D) None of these
- 112. If $9\sqrt{x} = \sqrt{12} + \sqrt{147}$, then x = ?
 - (A) 2

(C) 4

(D)

3[2(13-16)-4[3(16-1-)+16(13-1-)] 1 3 4 3 3 6 - 3 12 - 4 18 - 4 16 + 18 - 12

-16+112-18+18+18 348 2572) 127 216

3(2(13-16) - 4/3(16-50) + 16(13-12)

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- 113. A and B can complete a piece of work in 118. The L.C.M. of three different numbers is 8 days, B and C can do it in 12 days, C and A can do it in 8 days. A, B and C together can complete it in (B) 5 days (A) 4 days 7 days (D) 6 days (C) 114. X is 3 times as fast as Y and is able to complete the work in 40 days less than Y. Then the time in which they can complete the work together is (A) 15 days 10 days (C) $7\frac{1}{2}$ days (D) 5 days
- 115. A copper wire is bent in the shape of a square of area 81 cm². If the same wire is bent in the form of a semicircle, the radius (in cm) of the semicircle is (Take $\pi = \frac{22}{7}$) 121. (B) 14 (A) 16 (D) (C) 10 The volume (in m³) of rain water that can be

collected from 1.5 hectares of ground in a

(B)

750

rainfall of 5 cm is

(C) 40,000

(A) 75 75000 (D) 7500 A river 3 m deep and 40 m wide is flowing 122. at the rate of 2 km per hour. How much water (in litres) will fall into the sea in a minute? 40,00,000 (B) (A) 4,00,000

12 (A) 8 (B) 35 (D) (C) 24 A number when divided by 49 leaves 32 as remainder. This number when divided by 7 will have the remainder as (A)

H.C.F.?

120. Which of the following cannot be their

5 (C) (D) In an examination a student scores 4 marks for every correct answer and loses 1 mark for every wrong answer. If he attempts all 75 questions and secures 125 marks, the number of questions he attempts correctly is (A) 35 40 46 42 (D) (C)

The traffic lights at three different road

crossings change after 24 seconds, 36 seconds

and 54 seconds respectively. If they all

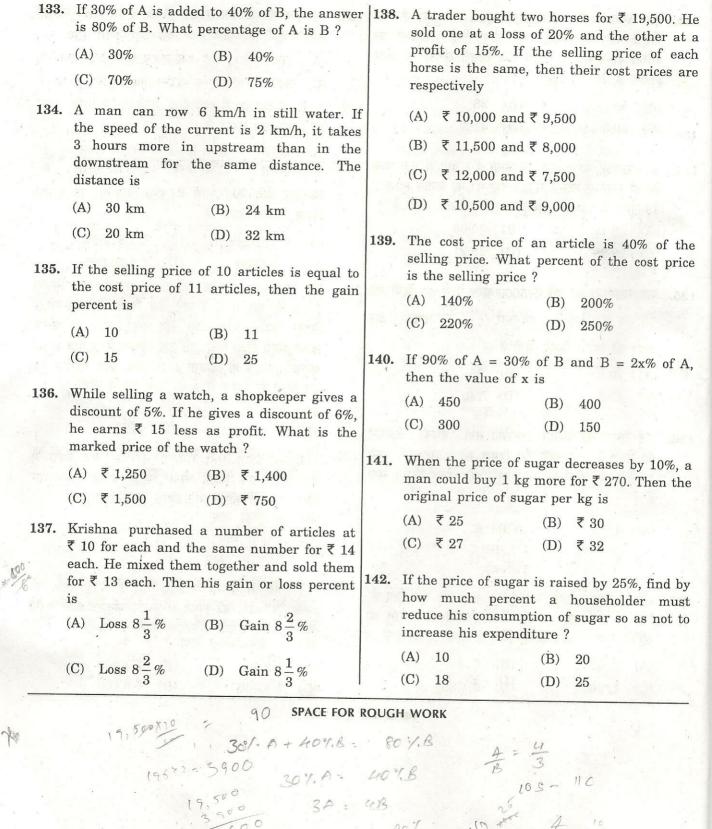
- change simultaneously at 10:15:00 AM, then at what time will they again change simultaneously? 10:16:54 AM 10:18:36 AM (C) 10:17:02 AM
- (D) 10:22:12 AM A can do a work in 12 days. When he had worked for 3 days, B joined him. If they complete the work in 3 more days, in how
 - many days can B alone finish the work? 12 days 6 days (B) (A)
 - (D) 8 days 4 days (C)

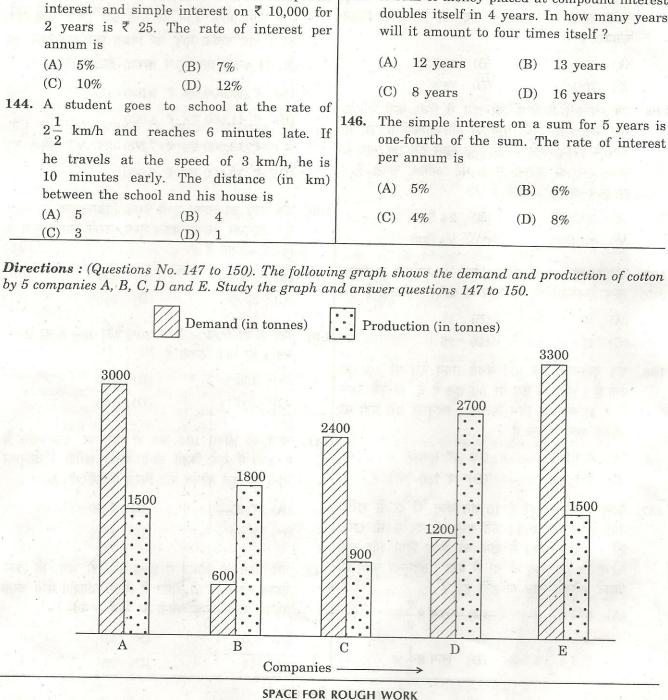
SPACE FOR ROUGH WORK

(D)

4,000

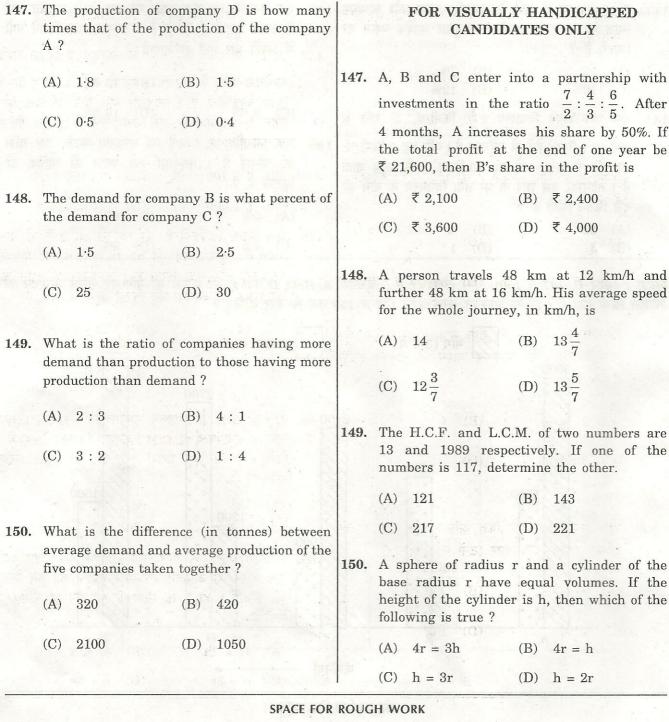
		Among three numbers, the first is twice the second and thrice the third. If the average of the three numbers is 49.5, then the difference between the first and the third number is	128.	What single discount is equivalent to two successive discounts of 20% and 15%? (A) 35% (B) 32% (C) 34% (D) 30%
		(A) 54 (B) 28	129.	In a business partnership among A, B, C and
	124.	(C) 39.5 (D) 41.5 The mean of 50 numbers is 30. Later it was		D, the profit is shared as follows: $\frac{A's \text{ share}}{B's \text{ share}} = \frac{B's \text{ share}}{C's \text{ share}} = \frac{C's \text{ share}}{D's \text{ share}} = \frac{1}{3}.$
3/6		discovered that two entries were wrongly entered as 82 and 13 instead of 28 and 31. Find the correct mean.	HAT ITES	If the total profit is ₹ 4,00,000, the share of C is
· U		(A) 36·12 (B) 30·66		7 . 7 . 7
		(C) 29·28 (D) 38·21		
	125.	A bicycle wheel makes 5000 revolutions in moving 11 km. Then the radius of the wheel (in cm) is (Take $\pi = \frac{22}{7}$)	130.	A can contains a mixture of two liquids A and B in the ratio 7:5. When 9 litres of mixture are drawn off and the can is filled with B, the ratio of A and B becomes 7:9. Litres of liquid A contained by the can
a 1 6	Till So	(A) 70 (B) 35		initially was
100		(C) 17·5 (D) 140		(A) 10 (B) 20 (C) 21 (D) 25
	126.	The perimeter of a triangle is 40 cm and its area is 60 cm ² . If the largest side measures 17 cm, then the length (in cm) of the smallest side of the triangle is (A) 4 (B) 6 (C) 8 (D) 15	1	What number should be added to or subtracted from each term of the ratio 17:24 so that it becomes equal to 1:2? (A) 5 is subtracted (B) 10 is added (C) 7 is added (D) 10 is subtracted
36	127.	A shopkeeper allows a discount of 10% to his customers and still gains 20%. Find the marked price of the article which costs ₹ 450 (A) ₹ 600 (B) ₹ 540 (C) ₹ 660 (D) ₹ 580	9	 The ratio of weekly incomes of A and B is 9:7 and the ratio of their expenditures is 4:3. If each saves ₹ 200 per week, then the sum of their weekly incomes is (A) ₹ 3,600 (B) ₹ 4,200 (C) ₹ 4,800 (D) ₹ 5,600
	11.64	2.2 1:3:5:27 HM = 49.573 6.5.6.	R ROU: 3	1500 C.D. 133 C.C. 665 C.C. 66
	BD.	2011/Page 28 Age 7 10 10 10 10 10 10 10 10 10 10 10 10 10	8: C	3:9 464(25:2 1466





143. The difference between the compound 145. A sum of money placed at compound interest

30 -6 = 32 + 10 2 30 - 52 = -6+0 2 20 + 10 20 20 + 10 20 20 10 93×2 = 14 00 00 2700) 15000 (0.



PART D ENGLISH COMPREHENSION

151. His son is working very hardly. (C) (D) 152. Do you know that it was I (A) (B) (C) (C) (D) 153. The company has ordered some new equipments. (A) (B) (C) (D) 154. The future of food companies seems quite secure owed to ever-growing demand. (A) (B) (C) (D) 155. The vaccine when hit the Indian market is dogged by controversy. (C) (D) 156. The vaccine when hit the Indian market is dogged by controversy. (D) 157. The vaccine when hit the Indian market is dogged by controversy. (D) 158. The vaccine when hit the Indian market is dogged by controversy. (D) 159. The vaccine are given with blanks to be filled in 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 rectangle [Directions: In questions no. 151 to 155, some of the swhich part of a sentence has an error and blacken the letter (A, B, C). If a sentence is free from errors, black Sheet.	he rectangle [] corresponding to the appropriate
(A) (B) (C) (D) 153. The company has ordered (A) (B) rew equipments. (C) (D) 154. The future of food companies (B) (C) (C) (D) 155. The vaccine (A) (B) (C) (C) (D) 156. The vaccine when hit the Indian market is dogged by controversy. (C) (D) 157. The vaccine when hit the Indian market is dogged by controversy. (D) 158. The vaccine with blanks to be filled in 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 rectangle [] in the Answer Sheet. 156. If you had followed the rules, you disqualified. (A) will not be (B) would not be (C) will not have been (C) Unless (D) Although	(A) (B) (C) (D)	
(A) (B) (C) (D) 155. The vaccine (A) (B) (C) (D) Directions: In questions no. 156 to 160, sentences are given with blanks to be filled in 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 rectangle [] in the Answer Sheet. 156. If you had followed the rules, you disqualified. (A) will not be (B) would not be (C) (C) (D) No error. (D) In the event. (A) In the event of (B) Due to (C) According to (D) In reference to 159 you leave now, you will be late. (A) Until (B) Till (C) Unless (D) Although	(A) (B) 153. The company has ordered some new equipment (C)	(C) (D) ents. No error.
(A) (B) (C) (D) Directions: In questions no. 156 to 160, sentences are given with blanks to be filled in 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 rectangle [■] in the Answer Sheet. (A) In the event of (B) Due to (C) According to (C) According to (D) In reference to (D) In reference to (D) In reference to (E) (D) In reference to (E) (D) In reference to (E) (D) In reference to (D) In reference (D) In reference to (D) In reference (D	(A) (B)	(C) (D)
are given with blanks to be filled in 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 rectangle [] in the Answer Sheet. 156. If you had followed the rules, you disqualified. (A) In the event of (B) Due to (C) According to (D) In reference to (D) In reference to (E) You leave now, you will be late (E) Will not be (E) Would not be (E) Would not be (C) Unless (D) Although		
disqualified. (A) will not be (B) would not be (C) will not have been (B) Would not be (C) Unless (D) Although	are given with blanks to be filled in 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 rectangle [] in the Answer Sheet.	lived in India. (A) In the event of (B) Due to (C) According to
(B) would not be (C) will not have been (A) Until (B) Till (C) Unless (D) Although	disqualified.	79 79
		0504
	The second secon	(C) Unless (D) Although

160. The ___

157. The housewife _____ the cakes burning,

(B) smells

(D) smelling

and ran to switch off the oven.

(A)

smell

(C) smelt

hunting the bears.

soldiers

(A) poachers

were arrested for illegally

rangers

(D) villagers

(B)

four a	ltern eanii	atives, choose the	one u	hich best expresses	altern Idiom expres	ctions: In questions no. 171 to 175, four natives are given for the meaning of the given n/Phrase. Choose the alternative which best esses the meaning of the Idiom/Phrase and
161. GENIAL						k it in the Answer Sheet.
	(A)	Cordial	(B)	Unselfish		
	(C)	Careful	(D)	Specific	171.	To be all at sea
162.	ACC	RUE		A Section 19		(A) a family voyage
	(A)	Accumulate	(B)	Accommodate		(B) lost and confused
	(C)	Grow	(D)	Suffice		(C) in the middle of the ocean
163.	LOG	QUACIOUS				(D) a string of islands
	(A)	Talkative	(B)	Slow		ediae sente le
	(C)	Content	(D)	Unclear	172.	To take to one's heels
164.	VIN	DICTIVE		out yet a settlet	112.	
	(A)	Imaginative	(B)	Accusative		(A) to walk slowly
	(C)	Spiteful	(D)	Aggressive	1	(B) to run away
165.	INC	LEMENT			raid.	(C) to march forward
	(A)	Selfish	(B)	Active		(D) to hop and jump
	(C)	Unfavourable	(D)	Inactive		
Dire	ction	s: In questions	no. 16	6 to 170, choose the	173.	. To bite the dust
				he given word and		(A) eat voraciously
mark	it in	the Answer Shee	et.			(B) have nothing to eat
166.	SYI	NTHETIC				(C) eat roots
	(A)	Natural	(B)	Plastic		the control of the control of the
	(C)	Cosmetic	(D)	Apathetic		(D) None of the above
167.	AC	CORD				
	(A)	Disagreement	(B)	Welcome	174.	. A bolt from the blue
	(C)	Disrespect	(D)	Conformity		(A) a delayed event
168.	TNI	FIRMITY	LEGIS	att magspiller se	1956	(B) an inexplicable event
100.	(A)	Employment	(B)	Indisposition		(C) an unexpected event
	(C)	Strength	(D)	Weakness	The sales	(D) an unpleasant event
4.00						
169.		ASIBLE	(D)	Turne sticel	175.	. Cold comfort
	(A)	Useful Uneven	(B) (D)	Impractical Important	1	
	(C)	Oneven	(1)	Important.	- N	(A) absurdity
170.	ME	TICULOUS		ACC CAR		(B) deception
	(A)		(B)	Destructive		(C) slight satisfaction
	(C)	Careless	(D)	Flagrant		(D) foolish proposal

or unimproduction or unimproduction of the important control of the imp	nderl covem celow covem	ns: In questions no. 176 to 180, a sentence ined part thereof is given which may need thent. Alternatives are given at (A), (B) and which may be a better option. In case not the continuous sent is needed, your answer is (D). Blacken priate rectangle [] in the Answer Sheet.	l and		generally select one of the most elligent student of the school for this ard. one of the most intelligent students of the school one of the intelligent most students of the school
176.		friend lives in a nearby street whose ne I have forgotten.		(C)	one of the intelligent most student of the school
	(A)	the name of which		(D)	No improvement
	(B)	which name			Confidence of the control of the con
	(C)	of which name			s: In questions no. 181 to 185, out of the
	(D)	No improvement	subsi	titutec	rnatives, choose the one which can be d for the given words/sentence and t by blackening the appropriate rectangle
177.	He	both won a medal and a scholarship.			the Answer Sheet.
	(A)	He won a medal and a scholarship both.	181.	Pert	caining to cattle
	(B)	Both he won a medal and a scholarship.		(A)	Canine (B) Feline
	(C)	He won both a medal and a scholarship.		(C)	Bovine (D) Verminous
	(D)	No improvement	182.	То	look at someone in an angry or atening way
178.	He	has for good left India.		(A)	Glower (B) Gnaw
	(A)	He has left for good India.			Gnash (D) Grind
	(B)	He has left India for good.	183.		ost with little work but high salary
	(C)	Good he has left India.		(A)	Director (B) Trustee
	(D)	No improvement		(C)	Sinecure (D) Ombudsman
		(4)	184.	Some	ething that causes death
179.		are credibly informed that the murderer given himself up.		(A)	and a page of the CVA the Grazie on
		TOTAL DESIGNATION TO		(C)	Dangerous (B) Fatal Brutal (D) Horrible
	(A)	We are informed that the murderer has credibly given himself up.		(0)	Diutai (b) Hoffible
	(B)	We are informed that the murderer has	185.	A pe	erson who writes decoratively
		given credibly himself up.		(A)	Calligrapher
	(C)	We are informed that credibly the		(B)	Collier
		murderer has given up himself.		(C)	Choreographer
	(D)	No improvement		(D)	Cartographer

Direc	tions	s: In questions	no. 18	6 to 190, groups of	191.	(A)	problem	(B)	question
four words are given. In each group, one word is correctly spelt. Find the correctly spelt word and mark your answer in the Answer Sheet.					128		matter	(D)	query
186.		malaign	(B)	arraign	192.	(A)	around	(B)	out
100.	(C)	asigne	(D)	degine		(C)	about	(D)	on
187.	(A)	harrassment	(B)	embarrasment					
	(C)	fulfilment	(D)	denoument	193.	(A)	since	(B)	during
188.	(A)	agnostik	(B)	accomplice		(C)	around	(D)	from
	(C)	advercity	(D)	acrimonous					
189.	(A)	dysentery	(B)	momentery	194.	(A)	ideas	(B)	opinions
	(C)	cemetary	(D)	comentary		(C)	stories	(D)	matters
190.	(A)	ebulient	(B)	jubilant					
	(C)	iminent	(D)	tolerent	195.	(A)	solution	(B)	novel
				A TOP STATE		(C)	book	(D)	answer
Dire	to 20	is : In the follow	ing pa	ussage (questions no. have been left out.					
First	t reac	the passage or	er and	d try to understand	106	(A)	read	(B)	think
of th	ie alt	ernatives given.	in the Mark	blanks with the help your answer in the		(C)	open	(D)	guess
Ansı	ver S		(O. N.	101 000)					
				os. 191 – 200)	197.	(A)	now	(B)	time
	****			s been a complicated rs. This is a 191 to	- 13	(C)	then	(D)	ago
				ve the exact answer.					
				2 the age of the		. (A)	Moon	(B)	time
				es. There were al		(C)	Earth	(D)	Mars
				ed to have the 195					NAME OF
				to 196 about the		. (A)	part	(B)	division
		97 .	arry u			(C)		(D)	centre
			prove	ed that the 198		(0)	opening		
	rev			and the Earth wa	S 200	. (A)	h ond	(B)	begin
				stem, then scientist					
		ew where to 20		te dist		(C)) think	(D)	work