PART - a : GENERAL INTELLIGENCE

Directions: In questions no. 1 to 5, select the related 13. word | number from the given alternatives.

- MAHESH: 154362:: SHAME: ? 1.
 - (A) 65231
- (B) 65213
- 62513 (C)
- (D) 62351
- Stars: Blood cells: Telescope: ? 2.
 - (A) Lens
- (B) Blood
- (C) Camera
- (D) Microscope
- Scale: Length:: Seismograph: ? 3.
 - Temperature (A)
- (B) Earthquake
- Blood pressure (D) (C)
- Humidity
- : Percussion : : Veena : String
 - (A) Tabla
- (B) Harmonium
- (C) Violin
- (D) Sitar
- Ornithologist: Bird:: Archaeologist: ? 5.
 - Arbiter
 - (B) Aquatic
 - Artifact (C)
 - (D) Archipelago

Directions: In questions no. 6 to 12, find the odd word/number from the given alternatives.

- 6. (A) Mobile phone
- (B) Laptop
- (C) iPod
- (D) Wall clock
- 7. (A) Cotton
- Seed (B)
- (C) Thread
- (D) Cloth
- 8. (A) Mercury
- Earth (B)
- (C) Jupiter
- (D) Uranus

Diamond

- Copper 9. (A)
- (D) Lead
- (C) Silver

(A)

10.

(B) River .

(B)

(C) Stream

Dam

- (D) Spring
- 11. (A) Lioness
- Bitch (B)
- (C) Mare
- (D) Stag
- 12. (A) 81
- (B) 36
- (C) 135
- (D) 128

If numbers starting with 950 are Airtel numbers, how many Airtel numbers are there in the below series?

> 944340 950125 953074 950435 951095 950799 95225 940444 940415 952135 951025 950723 950555 950677 953099

- (A) 4
- (B) 5
- (C) 6
- (D) 7

Directions: In questions no. 14 to 18, select the missing number from the given responses.

5 5 5 14 ? 3 3 6 5 3 5

- (A) 1
- **(B)** 3
- (C) 2
- (D) 4
- 15. 03 (49)04
 - 04 (81)05
 - 07 (?) 04
 - (A) 65
- 79 (B)
- (C) 101
- 121 (D)

184

101 15 : 16.

: ?

48

43 35

38

- 56 : 34
- (A) 198
- (B) 158
- (C) 127
- (D) 142
- 17. 13289 1121
 - ? 13169
 - (A) 144
- (B) 100
- (C) 81
- (B) 225
- 2-6-8; 4-12-16; 6-18-24; ?-?-32 18.
 - (A) 4, 28
- (B) 8, 24
- (C) 14, 18
- (D) 16, 16

Directions: In questions no. 19 to 20, find the one that does **not** belong to the group.

- 1, 8, 27, 64, 127, 216 19.
 - (A) 27
- 127 (B)
- (C) 216
- 64 (D)
- 20. 75, 79, 72, 80, 69, 83, 66 69

79

(A)

72 (B)

(C)

83 (D)

SPACE FOR ROUGH WORK

					ww	w.sak	shie	educa	ation.	com				
missi	ing ter	s: In question m of the series.		21 to	24,	find	the	28.	place		in the	when sequent given letter se		
21.		FLJ, IOM, _?	_					1	Direct					
		LRP	(B) (D)	JLG					(A) (C)	pqrrs_rs_ sqppqpr spqpprr	(B) (D)	sqprrqr		
22.	BFG, HLM, NRS, ?						00			R C	D, E and F	or		
	(A)	TYZ	ABT	TXY				29.						
	(C) TWX (D) RVW	standing in a row. B is between F and D. is between A and C. A does not stand next to either F or D. C does not stand next to D.												
23.	1.	74, 24	2.	78,	20			}	is between which of the following				E 400 .	
	3.	82, 16	4.	?	, 12					lren ?				
	(A)	90	(B)	88				1	(A)	B and D	(B)	B and A		
	(C)	86	(D)	84					(C)	(C) B and E (D) B and C)	
24.	1.	X78	2.	T92				30.				there is an add ed against (A),		
	3.	P106	4.	?				1		4 1000 1		which have		
	(A)	M120	(B)	L11	8							ose the one wit		
	(C)	L120	(D)	K12	0			1	any	mistake.				
25.	Arrange the following in order :						}	Sristidhar Kashyap						
	1.							S/o Supravakar Kashyap						
	2.	Silver Jubilee							Near Nalla Beach, 11-Kalapet					
	3.	Anniversary							Puducherry – 605014					
	4.	Diamond Jubi	lee			01		1	(A) Sristidhar Kashyp S/o Supravakar Kashyp					
	5.	Centenary Cel	lebratio	n				1		1-Kalpet				
	(A)	3, 1, 2, 4, 5	(B)	3, 2	, 1, 4	1, 5	•	1		Puducherry -		Control of the state of the sta		
	(C)	2, 1, 3, 4, 5	(D)	2, 3	, 4, 8	1	•	1	(B)					
26.	Which one of the given responses would be a meaningful order of the following?								Near Nall Ba Puducherry -	ech, 11	-Kalapet			
	1.	Call letter						1	(C)	Sristidhar Ka	shyap			
	2.	Application	9					1		S/o Supravak	ar Kas	yap		
	3.	Advertisement	t					1		Near Nalla B		- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1		
	4.	Interview						1	_	Puducherry -				
	5.	Appointment			1,2111				ADT		-	hvan		
	(A)	3, 1, 2, 5, 4		3, 2				1		S/o Supravak Near Nalla B				
	(C)	2, 1, 3, 4, 5	(D)	5, 4	, 3, 2	2, 1		1		Puducherry -				

27. Arrange the following in correct order:

- Taluk
- 2. State
- Street
- 4. Village
- 5. District
- (A) 1, 2, 5, 4, 3
- (B) 3, 4, 5, 1, 2
- (C) 3, 2, 4, 1, 5
- (D) 3, 4, 1, 5, 2
 - SPACE FOR ROUGH WORK

31.

(A)

LE)

From the given alternative words, select the

word which cannot be formed using the

(B)

(D)

PRESENT

POND

letters of the given word.

RESPOND

CORRECT

CORRESPONDENT

32. In the following series, how many P, D, R occur in such a way that D is followed both by P and R on any one side (in reverse way also)?

RGPKDRPDXRDP XGDRPKDPRXGK

- (A) 1
- (B) 2
- (C) 3
- (D) 4
- 33. In a certain code, the following alphabets are coded in a certain way by assigning numbers.

A	B	C	D	E	\mathbf{F}	G	H
1	3	5	2	6	8	4	7

Which number can be coded for FEDCG?

- (A) 86524
- (B) 86245
- (C) 86452
- (D) 86254
- 34. If $5 \times 6 = 42$, $2 \times 8 = 27$, $4 \times 9 = 50$, then $7 \times 0 =$
 - (A) 0
- (B) 7
- (Q) 8
- (D) 15
- 35. In certain code, P is #, A is %, C is φ and E is @. How is PEACE written in that code?
 - (A) %#@¢%
- (B) #8% ¢8
- (C) #@%@#
-) (D) #@#¢@
- 36. In a certain code, the following alphabets are coded in a certain way by assigning numbers as follows:

A D I L M N O R W 1 2 3 4 5 6 7 8 9

Which word can be decoded from the following?

163514 97842

- ∠(A) WORLD OF ANIMALS
 - (B) ANIMALS WORLD
- (ANIMAL WORLD
 - (D) ANIMAL LESS WORLD
- 37. The elephant population in Karnataka is increasing year after year. Find out the elephant population in 2006 from the following information:

2001	2002	2003	2004	2005	2006
12	24	48	84	132	?

- (A) 192
- (B) 190
- (C) 180
- (D) 185

- 8. Mr. Sen is a hardworking labourer. He earns ₹ 200 per day. On an average, he spends ₹ 75 for food, ₹ 10 for dress, ₹ 50 for loan repayments, ₹ 10 for social service and ₹ 30 for other activities. The balance amount he deposits in his bank account. If he takes 5 days' leave in January, what will be his bank balance for the month?
 - (A) ₹ 775
- (B) ₹ 650
- (C) ₹ 750
- (D) ₹ 625
- 39. If EARTH is coded as SUBDZ, then TEAR and HER are coded as
 - (A) DSUB, ZUB
- (B) DUBS, BUZ
- (C) DSUB, BSZ
- (B) DSUB, ZSB

Directions: In questions no. 40 and 41, a statement is given followed by two conclusions. You have to consider the statement to be true, even if it seems to be at variance from commonly known facts. You have to decide which of the given conclusions, if any, follows from the given statement.

40. Statement: Safety lockers are the best place to preserve valuables.

Conclusions:

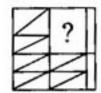
- Valuables are not safe at any place.
- There are few places better than safety lockers to preserve valuables.
- (A) Only conclusion I follows
- (B) Only conclusion II follows
- (C) Both conclusions I and II follow
- (D) Neither conclusion I nor II follows
- 41. Statement: Of all the T.V. sets manufactured in India, 'Solar' brand has the largest sale.

Conclusions:

- Volume of sales of all brands of T.V. sets manufactured is known.
- II. The production of no other T.V. set is as large as that of 'Solar'.
- (A) Only conclusion I follows
- (B) Only conclusion II follows
- (C) Both conclusions I and II follow
 (D) Neither conclusion I nor II follows

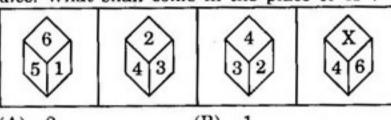
Complete the missing portion selecting from |46. 42. the alternatives given.

Question figure:



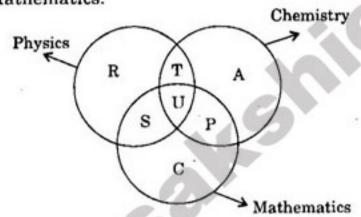
Answer figures :/ (C) (A) (B)

43. Given below are the different positions of a dice. What shall come in the place of 'X'?



(A) (C) (B) (D)

The diagram below represents the students Chemistry study Physics, Mathematics.

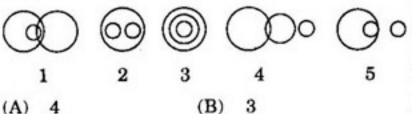


Study the diagram and identify the region which represents students who study both Physics and Chemistry but not Mathematics. (A) R+T+A+U+P+S (B)

T+S+U+P (C)

(D) C

Which one of the following figures represents relationship Politicians. among Contractors and Candles ?



(B) 3

(C) 2 (D) 1 Which answer figure will complete the pattern in the question figure ?

Question figure:

Answer figures : (A) (B) (C) (D)

47. From the given answer figures, select the which the question figure is in one hidden/embedded.

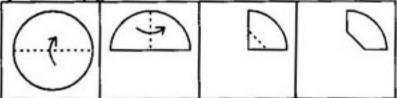
Question figure:



Answer figures -(A) (B) (C) (D)

A piece of paper is folded and cut as shown 48. below in the question figures. From the given answer figures, indicate how it will appear when opened.

Question figures:



Answer figures :

49. Find out the mirror image of the question 43. figure given below.

Question figure:



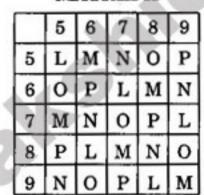
Answer figures : (D) (A) (B) (C)

50. A word is represented by only one set of numbers as 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 Directions : In questions no. 46 to 48, select 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., G can be represented by 02, 14, etc., and P can be represented by 66, 78, etc. Similarly, you have to identify the set for the word LINE.

MATRIX I

	0	1	2	3	4
0	E	F	G	Н	I
1	Н	I	E	F	G
2	F	G	н	I	E
3	I	E	F	G	Н
4	G	н	I	E	F

MATRIX II



- 86, 31, 69, 42 (A)
- (B) 86, 11, 68, 42
- (C) 86, 11, 69, 43
- (D) 86, 11, 69, 40

FOR VISUALLY HANDICAPPED CANDIDATES ONLY

Directions: In questions no. 42 and 43, a series is given, with one term missing. Choose the correct 50. alternative from the given ones that will complete the series.

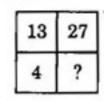
- 42.
- 89, 98, 55, ?
- 58 (A)
- (B) 55
- (C) 98
- 99 (D)

- B, F, J, N, R, V, Z, D, H, L, ?
 - (A) M
- (B) O
- (C) P
- (D) T
- 44. Rama, a friend of Krishna, came to meet him every Sunday. The first time he came at 12.30 pm, next time at 1.20 pm, then at 2.30 pm and then at 4 pm. When did Rama turn up to see Krishna, the time after that?
 - (A) 5.20 pm
- (B) 5.30 pm
- 6.20 pm
- 5.50 pm (D)
- 45. Find the odd number from the given alternatives.
 - (A) 146
- (B) 278
- (C) 321
- (D) 789

missing number from the given responses.

10 120 8

7	30
6	222



- (A) 126
- (B) 132
- (C) 147
- (D) 160
- 47. 42, 79, 153, ? , 597
 - 300
- (B) 301
- 305
- (D) 303
- 48. 77, 49, 36, 18, ?
 - (A) 7
- (B)
- (C) 9
- (D)
- 49. If BHASHA is written is 154754 and BRAIN is written as 13408, then AHINSA is written 28
 - (A) 458074
- (B) 405847
- (C) 450847
- (D) 450874
- If HKUJ is written as FISH in a code language, how can UVCD be written in the same code ?
 - (A) STAR
- (B) STAK
- STAL
- (D) STAB

PART - b : GENERAL AWARENESS

51.		ns under perfectly competitive markets erally are	57.	The Con	final interpreter of the Indian stitution is			
	(A)	Price makers	1	(A)	Central Cabinet			
	(B)	Price givers	1	(B)	President			
	(C)	Price takers	1					
	(D)	Price fixers		(C)	High Court			
2.	Sele	ct the odd one in the following:		(D)	Supreme Court			
	(A)	Petroleum	58.	One	of the following laws favours women's			
	(B)	Coal		inte	rests:			
	(C)	Fuel wood	1	(A)	Equal Remuneration Act			
	(D)	Electricity		(B)	Protection of Civil Rights Act			
3.	Nati	onal Income is	1	(C)	Immoral Traffic (Prevention) Act			
	(A)	Net National Product – Indirect Taxes + Subsidies		(D)	None of the above			
	(B)	Gross National Product - Direct Taxes	59.	One	of the following was once an associate			
	(C)	Gross Domestic Product - Imports	. 4		e of the Union of India and later became			
	(D)	Net Domestic Product + Exports		a ful	Il fledged State :			
4.	Whi	ch statement is true ?	0	(A)	Jharkhand			
	(A)	Money is a good servant		(B)	Chhattisgarh			
	(B)	Money is a good servant but a bad		10	Arunachal Pradesh			
	(C)	master Money is a good master but a bad servant		(D)	Sikkim			
	(D)	Money is a good master and a good	60.	President of India can be impeached by				
		servant		(A)	Specially constituted Tribunal			
5.	India	has adopted as its economic	1	(B)	Supreme Court			
		em to bring about a socialistic pattern of		(C)	Central Cabinet			
	socie	Socialism		(D)	Parliament			
	(B)	Mixed Economy	1					
ď	(C)	Capitalism	61.	Who	among the following was the leader of			
69	(D)	Political Economy			net Mission ?			
6.	Local	governments are the basis of		(A)	Stafford Cripps			
	(A)	Aristocracy		(B)	Linlithgow			
	(B) .	Secularism			A.V. Alexander			
	(C)	Democracy						
	(D)	Reservation		(D)	Sir Pethick Lawrence			

SPACE FOR ROUGH WORK

62.	Nad	lir Shah de	feat the	llowing battles did Mughal Emperor			nnai gets less rain than other places n the South-West monsoons because				
	(A)	nammad Shal Delhi	(B)	Karnal		(A)	The monsoon runs parallel to Coromandel coast				
	(C)	Panipat	(D)	Kanpur		(B)	Chennai is too hot to allow moisture to condense				
63.	Mak	abashya was	written	by		(C)					
	(A)	Gargi	(B)	Manu	1	(D)	All the above				
	(C)	Bana	(AD)	Patanjali	69.		climate of India is				
34.	The	cong 'Jana	Gana M	ana' composed by	1	(A) (C)	Equatorial (B) Monsoonal Mediterranean (D) Continental				
,				is first published in	1	(0)	Mediterranean (D) Continental				
		uary 1912 un		[편한][편 [12] [12] [12] [13] (2.10) (2.20) (2.20) (2.20) (2.20)	70.	Late	erite soils are found in				
	(A)	Rashtra Jag	rati			(A) heavy rainfall region					
	(B)	Tatva Bodhi	ini			(B)	desert region				
	(C)	Bharat Vidh	nata			(C)	tropical region				
	(D)	None of the	above	14		(D)	tropical region with wet and dry climate				
	~1	~· · · ·			71.	Phot	tosynthesis takes place in				
35.	Sher	r Shah died v	while figh	iting in	0	(A)	Roots of the plants				
	(A)	Chausa		40		(B) Green parts of the plants					
	(B)	Kalinga		40		(C)	Stems of the plants				
	(C)	Kalinjar			1	(D)	All parts of the plant				
	(D)	None of the	se		72.	Univ	versal Blood Donor is				
86.	Rios	phere reserve	es are me	eant to		(A)	A group (B) B group				
		, ,	- "		1	(C)	AB group (D) O group				
	(A)			ora and fauna	73.	Alcol	holic fermentation is brought by				
	(B)			lop forest products	1	(A)	Mushrooms				
	(C)	Experiment	and d	evelop agriculture		(B)	Amoeba				
	(D)	All the abov				(C)	Virus				
1	(D)	All the abov	е			(D)	Yeast				
7.	Days	s and nights	are cause	ed because of	74.	120022	s and bats are good fliers. The bat				
	(A)	shape of Earth's orbit					rs from bird in having				
	(B)	revolution m	ovement			(A)	Four chambered heart				
					1	(B)	Diaphragm				

(C) rotational movement

(D) None of the above

Wings

Small brain

(C)

(D)

75.	'Tube within a tube' type of body plan is found in	82.	A translator for the high-level language				
	(A) Sea anemone		(A) Assembler (B) Compiler				
	(B) Leech		(C) Loader (D) Linker				
	(C) Amoeba						
	(D) Sycon	83.	Atomic nuclei are composed of				
70			(A) Protons and electrons				
76.	The portion of a plant that is grafted on to the other plant is called		(B) Protons and isotrons				
	(A) Stock (B) Scion	1	(C) Electrons and neutrons				
	(C) Stalk (D) Sucker	1	(D) Protons and neutrons				
77.	White light is a mixture of how many colours?	84.	Which allotrope of carbon is used both as lubricant and as lead in pencils?				
	(A) 4 (B) 5		(A) Diamond (B) Coal				
	(C) 6 (D) 7		(C) Charcoal (D) Graphite				
78.	Surface tension arises due to	85.	Example of aerosol is				
	(A) adhesive force between molecules		(A) Milk (B) River water				
	(B) cohesive force between molecules		(C) Smoke (D) Blood				
	(C) gravitational force between molecules (D) electrical force between molecules	86.	A process that is almost the reverse photosynthesis is the				
79.	A particle covers equal distance around a		(A) digestion of starch				
	circular path in equal interval of time. It has uniform		(B) melting of iron				
	(A) Velocity (B) Speed	1	(C) ripening of fruit				
	(C) Acceleration (D) Momentum		(D) burning of wood				
80.	Which of the following will always produce a	87.	Ozone hole was discovered over Antarctica i				
70.00	diminished image of an object placed before	1	(A) 1975 (B) 1985				
	it ?		(C) 1978 (D) 1987				
	(A) Plane mirror	1	Table 19 COS MIN COS				
	(B) Convex mirror	88.	Yusho disease, discovered in Japan,				
4	(C) Convex lens		related with pollution due to				
P	(D) Concave mirror	ı	(A) PCB (B) Cadmium				
81.	The term PC means		(C) Acid Rain (D) PAN				
	(A) Private Computer	89.	The Pyramid of Biomass is inverted in which				
	(B) Personal Calculator	1	ecosystem ?				
	(C) Personal Computer		(A) Pond (B) Forest				
	(D) Professional Computer		(C) Grassland (D) Mangrove				

	a	D	lor	m	C Dil				
90.	the Min	Pollution Control Board comes under istry of	95.	10000	famous Dilwara Temples are situated i				
			ł	(A)	Rajasthan				
	(A) He	ealth and Family Welfare	1	(B)	Uttar Pradesh				
	(B) Oil	and Petroleum		(C) (D)	Madhya Pradesh Maharashtra				
	(C) Soc	cial Welfare		(D)	Manarashira				
	(D) En	vironment and Forests	96.		President of India has awarded Raj adhi Khel Ratna Award to				
91.	Hyderab	oad is famous for a museum. Name		(A)	Vijay Kumar (Shooter)				
	the mus			(B)	M.S. Dhoni (Cricketer)				
	(A) Pri	Prince Wales Museum		E)	Both (A) and (B)				
				(D)	None of the above				
	100 M			India has won the Under-19 Cricket V					
	(C) Na	tional Museum	97.	Cup, 2012 after defeating in					
	(D) Vio	ctoria Museum		final	l.				
				(A)	Australia				
92.	Which c	ity is known as Electronic City?		(B)	England				
	(A) Gu	argaon			South Africa				
	(B) Be	ngaluru	-	(D)	Pakistan				
	(C) Jai	Jaipur		Bha	ratpur Sanctuary is located in the Stat				
	(D) Sal	lem	98.	of	aupar Janobaary 15 100atea in the Jour				
				(A)	Orissa (B) Tamil Nadu				
93.	First wo	oman President of India is		(Ċ)	Karnataka (D) Rajasthan				
	(A) Mr	s. Najma Heptulla	00	(D)	2014 (1) 4' - 111 - 11 (1) 1 : :				
	(B) Mr	rs. Sheila Dikshit	99.	The 2014 Shooting World Championship w be held in					
	(C) Mr	s. Vasundhara Raje Scindia		(A)	Granada in Spain				
	(D) Mr	rs. Pratibha Patil		(B)	New Delhi in India				
				(C)	Toronto in Canada				
94.	To whi	ch country does India export the		(D)	Melbourne in Australia				
N	maximu								
-	terms ?		100.	Rath	nyatra at Puri is celebrated in honour o				
	(A) U.S	S.A.		(A)	Lord Rama				
	(B) Bri	itain		(B)	Lord Jagan Nath				
	(C) Ru	ssia	1	(C)	Sri Chaitanya Prabhu				
	(D) Jaj	pan	1	(D)	Sri Satya Sai Baba				

PART - c : QUANTITATIVE APTITUDE

- 101. The largest number among 2.6, 2.066, 2.66, 109. A trader marked his product 20% higher 2.08 is
 - (A) 2.6
- 2.066 (B)
- (E) 2.66
- (D) 2·08
- 102. If $\sqrt{2} = 1.4142$, the value of $\frac{7}{4 + \sqrt{2}}$ is
 - (A) 1·2929
- (B) 1.5858
- (C) 3.5858
- (D) 4·4142
- 103. Next number in the series 6, 16, 36, 76, 156, 316, ...

is

- (A) 633
- 632
- (C) 636
- (D) 638
- 104. $7^{12} 4^{12}$ is exactly divisible by which of the 1 of the (A) following numbers?
 - (A) 36
- (C) 34
- (D) 33
- 105. The LCM of two numbers a, b is 72 and 72 > a > b. The biggest possible values of a, b are respectively
 - (A) 24, 18
- (C) 36, 24
- y(D) 72, 48
- 106. In a hostel, there are 120 students and food stock is for 45 days. If 30 new students join the hostel, in how many days will the complete stock be exhausted?
 - (A) 32
- (B) 36
- (C) 38
- (D) 40
- 107. 40 men can build a wall 200 m long in 12 days working 8 hours a day. The number of days 30 men will take to build a similar wall 300 m long working 6 hours a day will be
 - (A) 36
- (B)
- (C) 32
- (D) 18
- A book was sold at a discount of 10% on the 115. printed price, and was purchased at a discount of 20% on the printed price. If the profit in the complete deal was ₹ 10, then the printed price of the book was
 - ₹ 110 (A)
- (**B**) ₹ 80
- (D) ₹ 100

- than his cost price and then gives 20% discount on the marked price. The profit or loss for selling the product is
 - (A) 4% profit
- 0% profit
- (C) 4% loss
- (D) 10% profit
- 110. The ratio between the ages of A and B is 3:5 and the sum of their ages is 56 years. The ratio between their ages 7 years ago was

- Divide ₹ 990 into 3 parts in such a way that half of the first part, one-third of the second part and one-fifth of the 3rd part are equal.
- 200, 300, 490 (B) 196, 298, 496
- 198, 494, 298 (D) 198, 297, 495
- 112. A person bought some oranges worth ₹ 36 from each of the five markets at ₹ 1, ₹ 1.50, ₹ 1.80, ₹ 2 and ₹ 2.25 per orange respectively. What is the average price of an orange?
 - (A) ₹ 1·58
- (B) ₹ 1.80
- (C) ₹ 1.91
- (D) ₹ 2.00
- 113. The mean temperature of Monday to Wednesday was 37°C and of Tuesday to Thursday was 34°C. If the temperature on Thursday was 4/5 that of Monday, the temperature on Thursday was
 - (A) 36.5°C
- (B) 36°C
- (C) 35·5°C
- (D) 34°C
- A man loses 10% by selling an article for ₹ 180. At what price should he sell it to gain 10% ?
 - (A) ₹ 200
- (B) ₹ 216
- (C) ₹ 220
- (D) ₹ 217·80
- A producer of tea blends two varieties of tea from tea gardens one costing ₹ 18 per kg and another ₹ 20 per kg in the ratio 5 : 3. If he sells the blended variety at ₹ 21 per kg, then his gain percent is
 - (A) 10
- (B) 12
- (C) 18
- 8 (D)

- 116. 25% of what amount of money is equal to 124. A metal sphere of radius 12 cm is melted $12\frac{1}{2}\%$ of ₹ 180 ?
 - (A) ₹ 80
- (C) ₹ 120
- ₹ 75 (D)
- 117. In measuring a line segment of length 2.5 cm, it was measured as 2.55 cm by mistake. Find the error percent.
 - (A) 1%
- (B)
- (C) 3.5%
- 3% (D)
- 118. Two friends walking at 5 km/hr and 7 km/hr start at the same time from two different towns 48 km apart towards each other. They will meet each other after
 - (A) 2 hours
- (B) 4 hours
- (C) 5 hours
- (D) 6 hours
- 119. A sum amounts to ₹ 1,352 in 2 years at 4% compound interest. The sum is
 - (A) ₹ 1,300
- (B) ₹ 1,260
- (C) ₹ 1,250
- (D) ₹ 1,200
- 120. The wheel of an engine turns 350 times 127. round its axle to cover a distance of 1.76 km. The diameter of the wheel is
 - (A) 90 cm
- (B) 160 cm
- (C) 120 cm
- 150 cm (D)
- 121. A solid metallic cylinder of base radius 3 cm and height 5 cm is melted to form cones, each of height 1 cm and base radius 1 mm. The number of cones is
 - (A) 3500
- 4500 (B)
- (C) 7500
- (D) 13500
- 122. The centroid of an equilateral triangle ABC is G. If AB = 9 cm, the length of AG (in cm) is
 - (A) 2√3
- (B) √3
- (C) 3√3
- (D) 3\sqrt{2}
- 123. In a polygon, the sum of the interior angles is double the sum of the exterior angles. The number of sides is
 - (A) 4
- (B)
- (C) 6
- (D)

5

- into three smaller spheres. If the radii of two smaller spheres are 6 cm and 8 cm, the radius of the third is
 - (A) 10 cm
- (B) 12 cm
- (C) 14 cm
- (D) 16 cm
- A rectangle has 30 cm as its length and 125. 720 cm² as its area. Its area is increased to $1\frac{1}{4}$ times its original area by increasing only its length. Its new perimeter is
 - (A) 119 cm
- (B) 121 cm
- (C) 123 cm
- (D) 125 cm
- 126. The length of the diagonal of a square is 8 cm. A circle has been drawn circumscribing the square. The area of the portion between the circle and the square (in cm2) is

- (D) $18\frac{2}{7}$
- If 3x + 2y = 12 and xy = 6, then the value of $9x^2 + 4y^2$ is
- 128. If the distance between the points (x, 0) and (-7, 0) be 10 units, then the possible values of x are
 - (A) 3 and -17
- (B) -3 and -17
- (C) 3 and 17
- (D) -3 and 17
- 129. If $x + \frac{1}{x} = 6$, then $x^4 + \frac{1}{x^4}$ is
 - (A) 1148
- (C) 1152
- (D) 1154
- 130. If $x + \frac{a}{x} = b$, the value of $\frac{x^2 + bx + a}{bx^2 x^3}$ is
 - (A) $\frac{b}{a}$

- (D)
- 131. If x + y + z = 13, then the maximum value of (x-2)(y+1)(z-3) is
 - (A) 54
- (B) 27
- (C) 25
- (D)

- 132. The medians of a triangle ABC meet at G. If | 140. If $\sin \theta = \frac{a^2 1}{a^2 + 1}$, then the value of the area of the triangle be 120 sq. cm, then the area of the triangle GBC is
 - (A) 30 sq. cm
- (B) 50 sq. cm
- (C) 20 sq. cm
- (D) 40 sq. cm
- 133. The mid points of AB and AC of a triangle ABC are respectively X and Y. If BC + XY = 12 unit, then the value of BC - XY is
 - (A) 4
- (B) 12
- (C) 6
- (D) 8
- 134. Suppose AB is a diameter of a circle whose centre is at O and C be any point on the circle. If CD \(\perp \) AB and CD = 12 cm. AD = 16 cm, then BD is
 - (A) 8 cm
- (B) 9 cm
- (C) 10 cm
- (D) 12 cm
- 135. In a \triangle ABC, AB = AC and D is a point on AB, such that AD = DC = BC. Then the ∠ BAC is
 - (A) 30°
- (B)
- (C) 40°
- (D) 45°
- 136. A, B and C are three points on a circle. The tangent at C meets BA produced at T. Given ∠ ATC = 36° and ∠ ACT = 48°, the angle subtended by AB at the centre of the circle is
 - (A) 96°
- (B) 72°
- (C) 84°
- (D) 48°
- 137. If $\alpha + \beta = 90^{\circ}$ and $\alpha : \beta = 2 : 1$, then the value of $\sin \alpha : \sin \beta$ is
 - (A) 1:1
- (B) $\sqrt{2}:1$
- (C) √3 : 1
- (D) 2:1
- 138. The angles of depression, from the top of a light-house, of two boats are 45° and 30° towards the west. If the two boats are 5 m apart, then the height of the light-house is

- (A) $3\sqrt{3} + 1$ m (B) $3(\sqrt{3} + 1)$ m (C) $3\sqrt{3} 1$ m (D) $3(\sqrt{3} 1)$ m
- 139. If $\sqrt{2} \cos(5x + 5^{\circ}) = \cot 45^{\circ}$, then the value 145. The year in which the percentage increase in of x in degrees is
 - (A) 10
- (B) 8
- (C) 11
- (D) 0

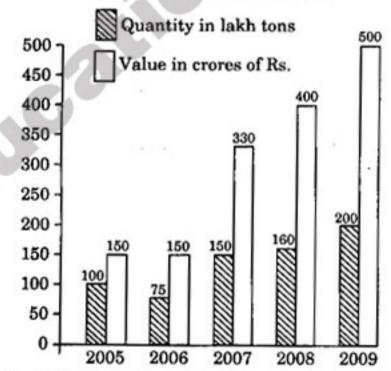
 $\sec \theta + \tan \theta$ will be

- (A) $\sqrt{2}$ a

- (C) $\frac{a}{\sqrt{2}}$ (D) $\frac{a}{a^2 + 1}$
- 141. If $\sin(x 2y) = \cos(4y x)$, then the value of cot 2y is
 - (A) 0
- (B) 1
- (C) $\frac{1}{\sqrt{3}}$

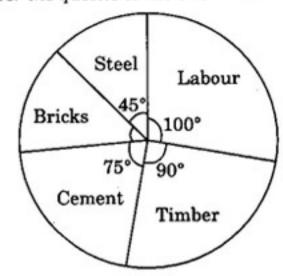
Directions: Study the following bar-diagram and answer questions no. 142 - 145.

INDIA'S BISCUIT EXPORT



- 142. In which year was the value per minimum?
 - (A) 2005
- (B) 2006
- (C) 2007
- (D) 2009
- 143. What was the % drop in export quantity from 2005 to 2006?
 - (A) 25%
- (B) 50%
- (C) 75%
- (D)
- 144. In which two years was the value per ton equal?
 - 2008 and 2009 (B) (A)
- 2007 and 2008
 - (C) 2006 and 2007 (D) 2005 and 2006
- export was maximum from its preceding year is
 - (A) 2008
- (B) . 2009
- 2007 (C)
- (D) None of these

Directions: The following pie chart represents a 143. A mixture of 20 kg of spirit and water total expenditure of ₹ 5,40,000 on different items in constructing a flat in a town. Study the pie chart and answer the questions no. 146 - 150.



- 146. Which is the item of maximum expenditure?
 - Timber (A)
- (B) Labour
- (C) Cement
- (D) Steel
- The expenditure in ₹ on cement is
 - (A) 1.35,000
- (B) 1,12,500
- (C) 75,000
- 90,000 (D)
- 148. The expenditure in ₹ on bricks is
 - (A) 1,50,000
- 70,000 (B)
- (C) 75,000
- 67,500 (D)
- 149. The expenditure on bricks is less than the expenditure on timber (in ₹) by
 - (A) 60,000
- (B) 65,000
- 10,000 (C)
- (D) 12,500
- 150. The percentage of the total expenditure spent on steel and cement is
- (B) 30%
- (C) 33·23%
- (D)

FOR VISUALLY HANDICAPPED CANDIDATES ONLY

- 142. Sudha and Rita start a business with ₹ 2,00,000 and ₹ 3,00,000 respectively. 10% interest on their capital is added to the business every year. Profit sharing ratio at the end of 2 years is
 - (A) 3:2
- (B) 2:3
- (C) 121: 180
- (D)
- 120:181

- contains 10% water. How much water must be added to this mixture to raise the percentage of water to 25%?
 - (A) 8 kg
- (B) 30 kg
- (C) 5 kg
- (D) 4 kg
- 144. The price of sugar increased by 25%. By what percent must a housewife reduce the consumption sugar, so that .the of expenditure on sugar is the same as before?
- (C) 25
- (D) 35
- 145. A can do a piece of work in 24 days, while B alone can do it in 16 days. With the help of C, they finish the work in 8 days. C alone can do the work in
 - (A) 32 days
- 36 days (B)
- (C) 40 days
- (D) 48 days
- 146. Simple interest at 10% on ₹ 5,000 is ₹ 2,500. The time for which the sum is invested is
 - (A) 8 years
- (B)
- (C) 5 years
- (D) 4 years
- 147. If $sec(90^{\circ} x^{\circ}) + cosec x^{\circ} = 4$, then x° is
 - (A) 30°
- (B) 60°
- (C) 45°
- (D) 15°
- 148. A person wants to travel a distance of 50 km by his bicycle. He travels with a speed of 12.5 km/hr. After every 12.5 km, he takes rest for 20 minutes. The time taken by the person to complete the whole distance is
 - 4 hours 20 minues
 - 5 hours 20 minutes (B)
 - (C) 5 hours
 - (D) 6 hours
- 149. The radius of a circle is 8 cm. An external point is at a distance of 10 cm from the centre. The length of the tangent drawn to the circle from the external point is
 - (A) 6 cm
- (B) 8 cm
- (C) 9 cm
- (D) 10 cm
- 150. A bicycle originally costs ₹ 100 and was discounted 10%. After three months, it was sold after having discounted 15%. How much was the bicycle sold for ?
 - (A) ₹ 55·50
- ₹ 95.25 (B)
- (C) ₹ 76·50
- (D) ₹ 85·50

PART - d: ENGLISH LANGUAGE

out u	ctions: In question which part of a sentence (, C). If a sentence	tence has an i	error and black	en the c	oval [/ correspon 	ding to	ome have none. Fir the appropriate lett Answer Sheet.	nd er
151.	My sister and m (A)	yself / are pl (B)		pt your		tation to dinn	er. / No (D)	error.	
152.	Mahatma Gandh (A)	i is called /	as the Father / (B)	of our		on. / No error (D)			
153.	The thief escape (A)	d / before / I (B)	opened the do	or. / No	erro (D)	or.		Co	
154.	A Commission h	as been appo	inted / to inves		/ into	this scandal.	/ No er (D)	ror.	
155.	Each of the stud (A) when his or her	name is calle	(B)		o err	or.	0		
		(C)			(D)	- 0			_
are g appro for ea of th	given with blank priate word (s). For sch question. Choo e four and indi	s to be fille our alternativ se the correct	ed in with ar es are suggested alternative ou	four of the m	altern ieanii	natives, choose ng of the given	the one	81 to 165, out of the which best expressed	ie es
appro	priate oval [•].		101		(A)	Stupid	(B)	Insignificant	
156.	You smoke illegal.	on the Me	tro now. It is		(C)	Irrelevant	(D)	Unpopular	
	(A) can't	(B) nee	edn't	162.		petent		_	
	(C) don't	(D) are	not allowed to		(A)	Intelligent	(B)	Experienced	

157. It _____ very hot tomorrow. (A) is (B) will be (C) is being (D) has been 158. I am __ a movie. (A) noticing (B) looking (C) watching (D) seeing 159. The boy swam right _____ the river. (A) on (B) over (D) through (e) across 160. She spent ____ amount of money she had. (A) little (B) much (C) the few (D) the little

- (C) Efficient
- (D) Suitable

163. Prejudiced

- (A) Biased
- (B) Confused
- (C) Ignorant
- (D) Foolish

164. Monument

- (A) Mausoleum
- (B) Epitaph
- (C) Tomb
- (D) Memorial

165. Care

- (A) Concern
- (B) Distress
- (C) Pressure
- (D) Trouble

SPACE FOR ROUGH WORK

Directions: In questions no. 181 to 185, out of the Directions: In questions no. 191 to 200, you have a four alternatives choose the one which can be substituted for the given words / sentence.

- 181. A large food basket with a cover
 - (A) hamper
- (B) knapsack
- (C) satchel
- (D) container
- 182. Stealing goods while shopping
 - (A) shop-lifting
- (B) burglary
- (C) plagiarism
- (D) window-shopping
- 183. Place for keeping birds
 - (A) aquarium
- (B) gymnasium
- (C) aviary
- (D) aerodrome
- 184. That cannot be overcome
 - (A) insurmountable
- (B) invincible
- (C) inseparable
- (D) insoluble
- 185. Number of things or portions close together without order or arrangement.
 - (A) huddle
- (B) assembly
- (C) mass
- (D) gathering

Directions: In questions no. 186 to 190, there are four different words out of which one is correctly spelt. Find the correctly spelt word and indicate it by blackening the appropriate oval ().

- 186. (A) Perseverence
- (B) Perseverance
- (C) Perseveranse
- (D) Peseverance
- 187. (A) Recommendation (B) Recommendation

 - (C) Recommendation (D) Recammendation
- 188. (A) Grievence
- (B) Greivence
- (C) Grievance
- (D) Grrievance
- 189. (A) Dictionery
- (B) Dicctionary
- (C) Dictionary
- (D) Dictionnery
- 190. (A) Appalled
- (B) Apalled
- (C) Appaled
- (D) Apallad

passage with 10 questions following the passage. Read the passage carefully and choose the best answer to each question out of the four alternatives.

Everyone keeps looking for signs of water. Then one day the men see patches of green grass. There are pools of water in the hollows. Men and animals begin to hurry, for they know that rain has fallen nearby. Farther on, they find enough grass for pasture and enough water in the hollows for their animals. Chief Omar gives the signal to make camp.

Again the camels kneel. And again the men unload them. Quickly they put up their tents, with the openings facing east. They spread rugs and blankets on the ground and place pillows on them.

A blanket divides the tent into two rooms. Then they unload the dishes and pots and bags of food and water. And once more the nomads are at home.

Meanwhile the thirsty animals take a long drink at the water holes. The goats drink first. Next come the sheep. Then come the camels. They are the thirstiest of all. They drink and drink. They have travelled for days without water. But at last they, too, turn away.

Rain has fallen here, and there will be pasture for many weeks. The animals will grow fat on the green grass. Then the men will choose the animals they want to sell. After they shear the sheep and fill the bags with wool, they will go to the big town on the oasis.

Again the nomads break camp and move on. They pitch their tents on the sand at the edge of the oasis. The first days in town are exciting days. There is the excitement of seeing shops and streets and crowds of people. The men must sell their animals and wool, and buy supplies. They bargain at the bazaars, and they drink coffee in the cool shade and listen to the sound of flowing water.