# PART - (a) GENERAL INTELLIGENCE

	Directions for question number 1 to 9: Select the related word/letters/number from the give						for question num		
	ect the ernatives		tters/numbe	er from the given	Selec		ie which is different f	rom the of	her three respon
1.		P:PAT:DAM:	?.		10.	(A)	Work - Leisure		
	(A)	BUND	(B)	MAD		(B)	Day - Night		
	(C)	STOP	(D)	AMD		(C)	Expedite - Proci	rastinate	
2.	8:1	8::24:?				(D)	Frequently - Alv	ways	1
	(A)	38	(B)	32				2000	
	(C)	44	(D)	43	11.	(A)	46, 24	(B)	62, 32
3.	56964	09::?:25				(C)	56, 30	(D)	74, 38
٥.	(A)	64	(B)	16			: (4		0.11
	(C)	27	(D)	36	12.	(A)	RPSZ	(B)	AIUE
	10000					(C)	QRTM	(D)	NQMR
4.		WVX :		VWX		52000000			A
	(A)	XWV	(B) (D)	VXW	13.	(A)	441	(B)	256
	(C)	AWY	(D)	YATT	rick of	(C)	481	(D)	361
5.	6:3	5::9:?		74, 1				Snu	
	(A)	18	(B)	27	14.	(A)	EBD	(B)	IFH
	(C)	53	(D)	72		(C)	URT	(D)	YWX
6.	Libr	ary:Books::Ba	ank:?		3			1	
	(A)	Cheque	(B)	Loan	15.	(A)	Cricket	(B)	Hockey
	(C)	Money	(D)	Account		(C)	Shuttle Cock	(D)	Tennis
7.	Chil	d:Father::Boo	ok:?		10	(1)	BCDE.	(m)	JKLM .
	(A)	Author	(B)	Publisher	16.	(A)	BCDE	(B)	
	(C)	Editor	(D)	Library		(C)	STVU	(D)	WXYZ
8.	SIN	:CRIME::?			17.	(A)	3216	(B)	2338
	(A)	MAN: ANIM			MENA?	(C)	3205	(D)	2015
	(B)	HOME: COU				(0)	3203	(0)	2010
	(C) (D)	MORALITY: JURY: PRIES		(	18.	(A)	SUNFLOWERC	DIL .	- 3.6
					11	(B)	COCONUTOIL		
9.		I:XVTR::DFH	1.295	VOOM		(C)	PALM OIL		1
	(A)	XTRT	(B)	XQOM		(D)	SANDAL WOO	noir	· 3
	(C)	ZVSO	(D)	WUSQ	NACO PROCESSOR	(0)	JANUAL WOO	TOIL.	

-	•		SPACE FOR R	OUG	1200	ORK -	1+		
S 1701	(C) ABC	(D)	DFG		(C)	Chaman	(D)	Satish	
	(A) SUW	(B)	XYZ		(A)	Hari	(B)	Mukesh	
25.	ACE, GIK, MOQ, ?					is the yongest?	13 HOL as	1. V	
1	(C) LOMM	(D)	LOMN			h. Mukesh is not Chaman. Satish			
	(A) KNLO	(B)	LNNM	31.		is older than Cha	The second secon		
24.	FUGT, HSIR, JQKP _				(C)	MEDICO	(D)	REMINDER	
	(C) 41	(D)	43		(A)	COMMUNICA'			
23.	3, 7, 13, 21, 31, <u>?</u> . (A) 33	(B)	36				Section 1	MEDIATES	
1202170	lete the series.				word	I. OMMENDATION			
Choo	<b>tions for question numb</b> se the correct alternative fi			30.	can b	the given alternate be formed by usin			
	(C) ABAB	(D)	AB' A' B		22-70				
	(A) A' BAB'	(B)	A' B' AB		(C)	ROAM	(D)	GRATE	
	-A'B-B' AA'-BB'-				(A)	AROMA	(B)	GEAR	
	at the gaps in the given	letter-ser	ies shall complete		MOR	rtgage			
22.	Which one set of letters	when se		29.	cann	othe given alterna ot be formed by u			
	(C) QUALITY	(D)	QUIT						
	dictionary? (A) QUICK	(B)	QUESTION	ŀ	(C)	24 years	(D)	20 years	
21.	Which will appea	r 4 <sup>th</sup> is	n the English		(A)	30 years	(B)	25 years	200
	(C) 5, 1, 2, 3, 4	(D)	5, 1, 3, 2, 4			Rajendra will be Howold would I			
diam'	(A) 1, 2, 3, 5, 4 ·	(B)	4, 1, 2, 3, 5			ears Devendra wi			
	(5) Asia	(9)	· · · · · · · · · · · · · · · · · · ·	28.	Deve	endra is older by	vears to	Rajendra. Afte	r
20.	(1) Lucknow (3) India	(2) (4)	Utter Pradesh World		(C)	COXITE	(D)	CHOKE	-
	AND CONTRACTOR	.000			(A)	EXOTLC	(B)	CXOTIE	
**	(C) 5, 1, 2, 3, 4	(D)	5, 1, 3, 4, 2		code		-	·m.omm	
	(5) Lakh (A) 2, 4, 1, 3, 5	(B)	4, 1, 3, 2, 5	27.	as "I	certain code ELDNIK" how is			
	(3) Thousand	(4)	Tens				"WINIT	T P# : J -	,
19.	(1) Hundred	(2)	Unit		(C)	250	(D)	280	
	th one of the given respon of the following words in				(A)	420	(B)	350	
	ctious for question num			26.	30, 6	8, 130, 222,?	520, 73	38.	
	195						1		

- Find the wrong number in the given series.
   225, 336, 447, 555, 669
  - (A) 225
- (B) 447
- (C) 555
- (D) 669
- 33. If HIGH is written as 8978 then DEAF = ?
  - (A) 1342
- (B) 1432
- (C) 4516
- (D) 4615

### Directions for question number 34 and 35:

Select the missing number from the given responses.

- **34**. 8 7 5
  - 10 7 5
  - 9 7 ?
  - (A) 2

(B) 5

(C) 1

- (D) 25
- 35. 9 5 4 10
  - 8 7 6 9
  - 12 6 8 ?
  - (A) 8

- (B) 9
- (C) 10
- (D) 12
- 36. Arun walks to north 30 mts. moves left and walks 40 mts. He again turns left and walks 30 mts. He finally turns left and walks 50 mts. Now how far Arun is from the starting point.
  - (A) 50 mts.
- (B) 40 mts
- (C) 30 mts
- (D) 10 mts
- 47. Avinash travelled towards south for 1 km. He turned right and travelled for one more kilometre. He again turned right and travelled 2 kilometres. In which direction is he from the starting point?
  - (A) South
- (B) West
- (C) North-West
- (D) North-East

- 38. If A for additions, M for Multiplication, D for Division, G for Greater than, L for Less than, then which of following will be logically correct?
  - (A) 4A 5D 3G 6A 2M 3
  - (B) 4A 5M 4L 6D 2A 8
  - (C) 4D 2A 4G 6D 2A 4
  - (D) 4A 3M 2L 4D 2M 6
- 39. Balu's house is 300 metres away from that of Sam. Balu stays 300 metres South West of Sam's house. Raju resides 600 metres North East of Balu. Then where is the position of Sam's house in relation to Raju's?
  - (A) North-East
- (B) South-East
- (C) North-West
- (D) South-West
- 40. Ramesh is the brother of Amit. Sushma is the sister of Satish. Amit is the son of Sushma. How is Ramesh related to Sushma?
  - (A) Father
- (B) Brother
- (C) Son
- (D) Nephew
- 41. Select the correct combination of mathematical signs to replace signs and to balance the given equation.

- (A) = ÷ >
- (B) + ÷ =
- (C) ÷ = ×
- (D) = × -
- 42. Some equations are solved on the basis of a certain system. On the same basis find out the correct answer for the unsolved equation.

 $3 \times 5 \times 7 = 15, 2 \times 4 \times 6 = 12, 4 \times 7 \times 9 = ?$ 

- (A) 28
- (B) 21
- (C) 20
- (D) 18

### Directions for question number 43 and 44:

Two statements are given followed by two conclusions (1) and (11). You have to consider the statements to be true even if they seem to be at variance from commonly known facts. You are to decide which of the given conclusions, if any, follow from the given statements. Indicate your answer.

43. Statements:

Latha is a beautiful and intelligent girl. She is very good.

Conclusion: (I)

All beautiful girls are intelligent.

- (II) Beauty and intelligence are the essential factors of goodness.
- (A) Only conclusion (I) follows.
- (B) Only conclusion (II) follows.
- (C) Both conclusion (I) & (II) follow.
- (D) Neither conclusion (I) nor (II) follow.
- 44. Statements: (1) All writers are lawyers.

All readers are lawyers.

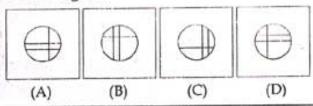
Conclusion: (1) Some lawyers are readers.

- (II) Some readers are writers.
- (A) Only conclusion (I) follows.
- (B) Only conclusion (II) follows.
- (C) Both conclusion (I) & (II) follow.
- (D) Neither conclusion (I) nor (II) follow.
- 45. Which answer figure will complete the pattern in the question figure?

### Question figure

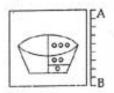


### Answer figures

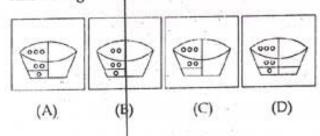


46. Which of the answer figure is exactly the mirror image of the given figure, when the mirror is held on the line AB?

### Question figure



### Answer figures

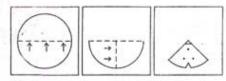


47. A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as in two matrices given below. The columns and rows of matrix I are numbered from 0 to 4 and that of Matrix II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, e.g., 'A' can be represented by 01, 12, 33, etc. and 'K' can be represented by 57, 68, 85, etc. Identify the set for the word EAST.

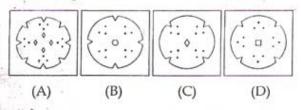
	N	fati	ix -	I			M	atr	ix -	II	
	0	1	2	3	4		5	6	7	8	9
0	Е	A	R	W	P	5	S	В	K	T	C
1	W	P	A:	Е	R	6	В	C	T	K	S
2	A	W	P	R	E	7	T	S	C	В	K
3	P	R	E	Α	W	8	K	T	S	C	В
4	R	E	W	Р	A	9	C	K	В	S	T

48. 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?

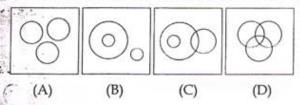
### Question figures



### Answer figures



49. Which one of the following diagrams best depicts the relationship among Deer, Rabbit and Tiger?

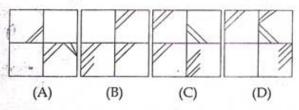


50: Select the answer figure in which the question figure is hidden/embedded.

### Question figure



### Answer figures



SPACE FOR R

### PART - (b)

### GENERAL AWARENESS

51.	In w	hich year did Gandh	niji start Satyagraha	59.	The	method not used as a Biological control is:
179		ement?		and the second	(A)	Use of predators of a pest.
	(A)	1919 (	B) 1927		(B)	Pheromone traps.
	(C)	1934 (	D) 1942		(C)	Use of pesticides.
1.					2000	Use of neem extracts.
52.	Ane	cosystem consists of:			(D)	Ose of neem extracts.
	(A)	in a particular area.	ers and decomposers	60.		States in India are demanding greater nomy from the centre in the field.
	(B)	all the plants and an			(A)	Legislative (B) Administrative
	(C)		and its environment.		(C)	Financia (D) All the above
	(D)	carnivorous and her	bivorous of an area		(C)	Titalicia (D) Till tile accide
53.	The	telephone was invente	d by:	61.	Ligh	t houses are places with powerful lights to:
	(A)	G. Marconi	4-12-14X)		(A)	guide and resolve traffic jams in crowded
300	(B)	Alexander Graham I	Bell			metro-cities during nights.
	(C)	J.L. Baird			(B)	guide and help large crowds at religious
	(D)	Thomas Barrow			3 (0)	gathering. Juring nights.
54.		crop mainly grown in			(C)	indicate to the incoming war-ships, the location of a harbour during night.
44	(A) -(C)	70.00000000000000000000000000000000000	B) sweet jowar D) sweet pea		(D)	guide and warn the ships coming from different directions in the ocean.
55.	Who	is called as the 'Proph	et of New India'?			4 7 7 1 64
	(A) (B)	Dayanand Saraswat Sri Ramakrishna		62.		Capitalistic Economy, the Prices are rmined by:
(	(C)	Raja Ram Mohan Ro	v		(A)	Demand and Supply
	(D)	Swami Vivekananda	•		(B)	Government Authorities
糖	18				(C)	Buyers in the Market
56.	Ethn (A)	ic group Mongoloids a Southern region	re found in India in :		(D)	Sellers in the Market
100	(B)	South-central region		63.	Who	of the following has not been an interlocutor
-	(C)	North-western region	n	80.		mmu & Kashmir?
	(D)	North-eastern region	1	1	(A)	M.M. Ansari
57	Who	n a vibrating tuning for	k is placed on a table.		(B)	Radha Kumar
		d sound is heard. This			(C)	Shujaat Bukhari
F.367	. (A)	reflection			(D)	Dilip Padgaonkar
7	(B)	refraction			(D)	Dinp radgaonian
	(C)	· forced vibrations	2	64.	The	Zone of Earth's atmosphere immediately
ý.:	(D)	damped vibrations			abov	ve its surface up to a height of about 16 kms re equator and 8 kms over the poles is known
58.	An i	nsect - catching plant is	s:		as:	to the second se
3	(A)	Australian Acacia (			(A)	Mesosphere (B) Thermosphere
56"	(0)	The state of the s	D) Nerium		(C)	Troposphere (D) Stratosphere
				÷		

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<b>(</b> F	The term 'Pitcher' is as	enciated	with ·	76.	The	National Develop	ment Co	uncil includes:
65.	(A) Wrestling	(B)	Boxing	1000	(A)	all central Cabir		
	(C) Baseball	(D)	Basketball		(B)	Chief Ministers		
66.	The filament of electric	bulb is			(C)			he States and the
	(A) Copper (C) Lead	(B) (D)	Nichrome Tungsten	107	(D)		Estimates	Committee of the
67.	Which of the following (A) Jute (C) Rubber	is called (B) (D)	"brown paper"? Cotton Tea	77.	Whie	ch of the following	ng is not	a cause of low
	A Secular State is one					Co-operative far		
68.	(A) has no religion		n		(A) (B)	Inadequate inpu		bility
	(B) is irreligious (C) is anti-religion				(C)			entation of land
4.			on the religious		(D)	Poor finance and	d market	ing facilities.
69.	What does Jahangir m (A) National Mona			78.		gas that is used ispati ghee is:	in the	manufacture of
1	(B) The Grand Mon				(A)	Oxygen		
	(C) Conqueror of th				(B)	Carbon dioxide		139
- 0	(D) Hero of hundre	d battles		1	(C)	Hydrogen		
70.	Gol Gumbaz is in:				(D)	Nitrogen		
	(A) Konark	(B)	Hyderabad				1	
	(C) Puri	(D)	Bijapur	79.	Cem	ent is usually a m	ixture of	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
71.	The early Buddhist scri	ptures w	ere composed in:	1	(A)	Calcium silicate		
/1.	(A) Prakrit texts	F.u. co	**************************************		(B)	Calcium silicate		
	(B) Pali texts				(C)	Calcium alumir		
1.4	(C) Sanskrit texts	2700a.03		000	(D)	Lime stone and	silicon d	ioxide
	(D) Pictographical t	exts		80.	Whi	ch of the following	e is not a	Hardware?
72.	In Mohanjadaro, the la	argest bu	ilding is:	00.	(A)	Processor chip	(B)	Printer
	(A) the great bath				(C)	Mouse	(D)	Java
	(B) a granary (C) the Pillared Hal	11				CHANGE TO CO.	30.00	
100	(C) the Pillared Hal (D) a two storeyed I			81.	Scur	vy is caused due t		
			ald on November		(A)	Vitamin-D	(B)	Vitamin - K
73.	Where was the Royal I 1st 1858 to issue the Q				(C)	Vitamin - E	(D)	Vitamin - C
	(A) Lucknow (C) Delhi	(B) (D)	Cawn pore Allahabad	82.	Acco	ording to a study co	onducted Jutrition,	by Hyderabad's the healthiest of
74.	Male (Anopheles) mos		eds on :		14 fr	esh fruits common imum 'Goodness	ly consur	ned in India with
	(A) Blood of man (B) Nectar of flower	r			(A)	Indian Plum	(B)	Mango
	(C) Blood of Culex				(C)	Guava	(D)	Custard apple
31	(D) Blood of Leech					The second second		
75.	Tooth paste is a produ  (A) Monopolistic Co			83.	the I	Parliament can leg Union List only inc ernment for the St	consultat	subjects given in ion with the State
	(B) Perfect Competi				(A)	Assam	(B)	Rajasthan
	(C) Monopoly				138377	Jammu & Kashr		Kerala
	(D) Duopoly			1	(C)	Januara de Rasin	(0)	

84.		amis are waves ger			92.	Who	of the followin	g pai	rs of N	obel Laureates in
	(A)	Earthquakes bene	eath the	e Sea			John C Math			
	(B).	Moon's pull				(A)	Albert Fert, P			
	(C)	High tides of the	oceans		l	(B)	David J Gros			
	(D)	Cyclones				(C)	Andre Geim			
85.	Whi	ch is the largest Sta	e of In	dia?		(D)	Andre Geim,	Kon	stantin	inovoseiov
03.	(A)	Madhya Pradesh			93.	"Tab	al Chongli' is a	orm	of folk	dance associated
	(B)	Andhra Pradesh				with	the State of:			
M.S.	(C)	Rajasthan				(A)	West Bengal		(B)	Assam
18	(D)	Maharashtra				(C)	Andhra Prac	lesh	(D)	Maharashtra
86.	Whi	ch one of the fo	llowi	ng is a system	94.	Who	is the suprer	ne C	omma	nder-in-Chief of
	(A)	Database program	ns			(A)	Defence Min	ctor		
	(B)	Word processors				(B)	Prime Minist	er		
	(C)	Spreadsheets				(C)	Senior-most	am	ong th	e three Service
	(D)	Compilers					Chiefs.			A CONTRACTOR OF THE
	2.37	100				(D)	President			1 1
87.	A p	iece of wood is he	eld un	der water. The	95.	TA7bi	ch of the follow	ring i	scorre	ctly matched?
	0.000	rust on it will be:			93.	(A)	Assam-Itana	77.77	Score	cu) maicrea
	(A)	equal to the weig				(B)	Arunachal F	P	ch-Cm	vahati
	(B)	less than weight					Tripura-Aga	35-5-5		- Caracta
	(C)	more than weigh	t of the	wood		(C)	Nagaland-Sl	The second second		
2.5	(D)	zero				(D)	Nagaianu-Si	imor	8	
88.	Kam	nakhya temple is	an imp	portant place of	96.	The	purest form of	ron i	s:	
	- 1760	ism in the State of:				(A)	Cast iron		(B)	Steel
200	· (A)	· Tamil Nadu				(C)	Pig iron		(D)	Wrought iron
1	(B)	Assam				27.71		T I:		seated for:
	(C)	Himachal Prades	h		97.		caste system of immobility o			reateu ioi .
15,000	(D)	Manipur				(A)	recognition o			r of labour
	1					(B)		999000	digitit	y of labour
89.	Elec	tric bulbs are filled	with:			(C)	economic up		ainn at	lahour
	(A)	Nitrogen		*		(D)	occupationa	aivi	Sion of	labour
1	(B)	Carbon dioxide		111	98.	The	iron ore which	cont	ains 72	% of iron is:
	(C)	Argon				(A)	Magnetite	Privateur :	(B)	Limonite
16	(D)	Oxygen				(C)	Haematite		(D)	Siderite
273 IT	1				12.65	114,120				at a street
90.		atmospheric gas th	at is ma	ainly responsible	99.		it is located on	the b		
100		Green House effect:	(TO)			(A)	Narmada	-77	(B)	Sharavathi
	(A)	Ozone	(B)	Nitrogen		(C)	Mahi		(D)	Tapti
	(C)	Oxygen	(D)	Carbondioxide	100.	The	tusk of ele	ohan	t is a	n enormously
91.	Wise	dom teeth is the:					rged:		ALL AND ON	rem i Press ve ud Pest Usilis 🕪
	(A)	1st molar teeth	(B)	2 <sup>nd</sup> molar teeth		(A)	upper incisc	r	(B)	upper canine
	(C)	3rd molar teeth	(D)	4th molar teeth		(C)	lower canine		(D)	lower incisor
	100	C 35.00	1000		L: 1		053 000		1	

### PART - (c)

### QUANTITATIVE APTITUDE

101.				e amount after			a = 23 and $a = 2 + 40$ ab $+ 16$		the	n the	value of
		um is:	THEIR GIVE THE	e or mineres p		(A)	1		(B).	-1	Ñ.
	(A)	12%	(B)	16%		(0)	0		(D)	2	
	(C)	18%	(D)	20%							
100					109.	0.000	$(2^{1/2}) = 8 \text{ an}$				
102.	A so	lid cone of he	eight 9 cm wi	th diameter of it	S	(A)	(1, 2)		(B)	(2, 1	
2.5				oden solid spher		(C)	(1, 1)		(D)	(2, 2)	)
		dius 9 cm. 11	ne percentage	of wood waste	110.	One	chord of a	ircle is kno	wnt	o be 10	.1 cm. The
	is	25	/B\	20			us of this di				
	(A)	25	(B)	30		(A)	5 cm				,
	(C)	50	(D)	75		(B)	greater th	an 5 cm			
103.	The	length of the	chord of a c	ircle is 8 cm an	d	(C)	Section Control Control Control	an or equa	l to 5	cm	
				en centre and th		(D)	less than			+	
	chor	d is 3 cm. T	hen the radio	as of the circle i							
	equa	al to			111.		the end dig				
. te+	(A)	4 cm	(B)	5 cm			divisible by			12	e digits are
	(C)	6 cm	(D)	8 cm	4	(A)	1		(B)	2	
				94		(C)	3		(D)	4	
104.	InΔ	ABC, ∠BAC=	90° and AB =	$=\frac{1}{2}$ BC. Then th	e   112.	If O <	$< x < \frac{\pi}{2}$ and	$\sec x = \cos x$	ec v,	then tl	ne value of
	mea	sure of ∠ACB	is:					The state of the state of			
	(A)	60°	(B)	30°			x+y) is	24 1 1 1	77)		1. 19
	(C)	45°	(D)	15°		(A)	0		(B)	1	
105.				0. If one numbe		(C)	1/2	(	(D)	1/5	3
50.40				the remaining	113.	Λ ec	olid wooder	tov is in	the	shape	of a right
1		bers is 130. T	Anna .		110.		lar cone mo				
/	(A)	135	(B)	134		radi	us of the her	misphere is	4.2	cm an	d the total
1	_(C)	180	(D)	150			ht of the toy				
106.	If to	vs are boug	ht at ₹ 5 ea	ch and sold a	ı	-	den toy (ne				
		0 each, then t				(A)	104 cm <sup>3</sup>	(	B)	162	cm <sup>3</sup>
4.5		- 10%	(B)	11%		(C)	427 cm <sup>3</sup>	(	D)	266	cm <sup>3</sup>
	(C)	12%	(D)	13%		100	10 70				D:: FOW
	305050		2000-000		114.		n do a pied				
107.				hich will divide			e efficient th h the same s		JW II	tarry t	mya D WIII
	4.4		-	er 2 in each case		(A)	6 days	100 100 100 100	R)	8 day	ve
	(A)	8	(B)	18			12 days	0.3	B)	24 da	S. 11. 11. 11. 1
1.7	(C)	28	(D)	38		(C)	12 days	,	D)	24 U	ayo
777/11				SPACE FOR	ROUG	H W	ORK				

- Each interior angle of a regular polygon is three 115. times its exterior angle, then the number of sides of the regular polygon is:
  - (A)

(B)

- 10
- (D)
- Selling an article at a profit of 5%, Mr.X gets ₹ 150 more than selling it at a loss of 5%. Mr.X purchased the article at
  - ₹ 15,000
- (B) ₹ 1500
- ₹ 150
- ₹ 15 (D)
- The ratio of the radii of two circles is 1:2, then 117. the ratio of their area is:
  - (A) 1:2
- (B) 2:1
- 1:4
- 4:5 (D)
- The true discount on a sum of money due 2 years 118. hence at 5% is ₹ 15. Find the sum.
  - 150 (A)
- 165
- 170 (C)
- (D) 160
- The average weight of 5 persons sitting in a boat 119. is 38 kg. The average weight of the boat and the persons sitting in the boat is 52 kg. What is the weight of the boat?
  - 228 kg
- 122 kg
- 232 kg
- (D) 242 kg
- The value of the expression

$$x^4 - 17x^3 + 17x^2 - 17x + 17$$
 at  $x = 16$  is

(A)

(B)

(C)

- (D)
- In a cylindrical vessel of diameter 24 cm filled up 121. with sufficient quantity of water, a solid spherical ball of radius 6 cm is completely immersed. Then the increase in height of water level is:
  - (A) 1.5 cm
- 2 cm (B)
- 3 cm (C)
- 4.2 cm (D)

- $\frac{1}{x} = 5$ , then  $x^2 + \frac{1}{x^2}$  is:
  - 5

- 23
- Each side of an equilateral triangle is 6 cm. Find its area.
  - (A) 9√3 sq cm
- 6√3 sq cm
- 4√3 sacm
- (D) 8√3 sq cm
- If  $\sin 17^\circ = \frac{1}{4}$ , then the value of  $\sec 17^\circ \sin 73^\circ$

is:

- 125. distance between Howrah and New Delhi via Patna is 1440 km, and the distance between Howtah and New Delhi via Gaya is 5% less. Then the distance between the places via Gaya (in kms) is
  - 1398 (A)
- 1368 (B)
- 1388 (C)
- 1268 (D)
- The value of

tan1° tan2° tan3°......tan89° is (A) 1

- (B)
- $\sqrt{3}$
- (D)
- 0.123 is equal to 127.
  - 14 (A) 333
- 41 (B) 333
- 123 1000
- 441 (D) 333
- ABCD is a cyclid parallelogram. The angle ∠B is equal to:
  - (A) 30°
- 60° -(B)
- 45° (C)
- 90° (D)

- 129. Ravi travels 300 km partly by train and partly by car. He takes 4 hr. to reach, if he travels 60 km by train and rest by car. He will take 10 minutes more if he were to travel 100 km by train and rest by car. The speed of the train is:
  - (A) 50 km/hr
- (B) 60 km/hr
- (C) 100 km/hr
- (D) 120 km/hr
- 130. The angles of elevation of the top of a tower from two points A and B lying on the horizontal through the foot of the tower are respectively 15° and 30°. If A and B are on the same side of the tower and AB = 48 metre, then the height of the tower is
  - (A) 24√3 metre
- (B) 24 metre
- (C)  $24\sqrt{2}$  metre
- (D) 96 metre
- 131. If A:B is 2:3, B:C is 6:11, then A:B:C is:
  - (A) 2:3:11
- (B) 4:6:22
- (C) 4:6:11
- (D) 2:6:11
- 132. The allowances of an employee constitute 165% of his basic pay. If he receives ₹ 11925 as gross salary, then his basic pay is (in ₹)
  - (A) 4000
- (B) 5000
- (C) 4500
- (D) 5500
- 133. A cistern is normally filled in 8 hours but takes another 2 hours longer to fill because of a leak in its bottom. If the cistern is full, the leak will empty it in:
  - (A) 16 hours
- (B) 20 hours
- (C) 25 hours
- (D) 40 hours
- 134. The product of two numbers is 36 and their sum is 13. The positive difference between the two numbers is
  - (A) 1

(B) 3

(C) 5

(D) 9

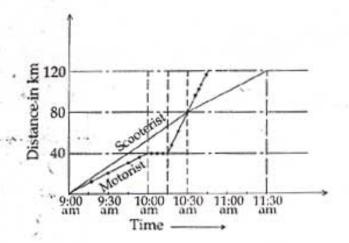
- 135. Two equal circles of radius 4 cm intersect each other such that each passes through the centre of the other. The length of the common chord is:
  - (A) 2√3 cm
- (B)  $4\sqrt{3}$  cm
- (C)  $2\sqrt{2}$  cm
- (D) 8 cm
- 136. From four corners of a square sheet of side 4 cm, four pieces, each in the shape of arc of a circle with radius 2 cm, are cut out. The area of the remaining portion is:
  - (A)  $(8-\pi)$  sq. cm.
  - (B)  $(16-4\pi)$  sq. cm.
  - (C)  $(16-8\pi)$  sq. cm.
  - (D) (4 − 2π) sq. cm.
- 137. If A, B and C be the angles of a triangle, then of the following the incorrect relation is:
  - (A)  $\sin \frac{A+B}{2} = \cos \frac{c}{2}$
  - (B)  $\cos\left(\frac{A+B}{2}\right) = \sin\frac{c}{2}$
  - (C)  $\tan\left(\frac{A+B}{2}\right) = \sec\frac{c}{2}$
  - (D)  $\cot\left(\frac{A+B}{2}\right) = \tan\frac{c}{2}$
- 138. If two-third of A is four-fifth of B, then A:B =?
  - (A) 5:6

- (B) 6:5
- (C) 10:9
- (D) 9:10
- 139. The lines 2x + y = 5 and x + 2y = 4 intersect at the point
  - (A) (1, 2)
- (B) (2, 1)
- (C) (5/2,0)
- (D) (0,2)

- **140.** If  $x = 3 + 2\sqrt{2}$ , then the value of  $\left(\sqrt{x} \frac{1}{\sqrt{x}}\right)$  is
  - (A) 1

- (B) 2
- (C) 2√2
- (D) 3√3
- 141. Two successive discounts of 5%, 10% are given for an article costing ₹850/-. Present cost of the article is (in ₹)
  - (A) 725
- (B) 726.75
- (C) 700
- (D) 650

A motorist and a scooterist made a journey of 120 km at the same time and from the same place. The graph shows the progress of the journey made by each person. Study the graph and answer the questions 142 to 145.



- 142. How far, from the start, did the motorist meet the scooterist? (in km)
  - (A) 75

(B) 70

(C) 90

(D) 80

- 143. What was the speed of the scooterist during the journey? (in km/hr.)
  - (A) 45

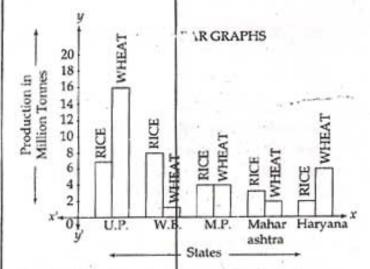
(B) 48

(C) 42

- (D) 46
- 144. The scooterist completes the journey in (hrs).
  - (A) 3

- (B) 2
- (C)  $2\frac{1}{2}$
- (D)  $3\frac{1}{2}$
- 145. At what time did the motorist meet the scooterist?
  - (A) 10.30 am
- (B) 10.45 am
- (C) 10.15 am
- (D) 10.20 am

Read the bar graph given below and answer questions 146 to 150.



- 146. Which of the above States is the largest producer of rice?
  - (A) U.P
- (B) W.B
- (C) M.P
- (D) Haryana

- 147. Which of the above State is the largest producer of wheat?
  - (A) M.P.
- (B) Haryana
- (C) Maharashtra
- (D) U.P.
- 148. What fraction of rice is produced by Haryana of the total production of rice by all the above States?
  - (A)  $\frac{1}{8}$

(B)  $\frac{1}{12}$ 

(C)  $\frac{1}{4}$ 

(D)  $\frac{1}{6}$ 

- 149. Which of the wheat?
  - (A) Maharashtra
- (B) W.B.
- (C) M.P.
- (D) Haryana
- 150. In which of the above States, the total production of rice and wheat is the least?
  - (A) W.B.
- (B) M.P.
- C) Maharashtra
- (D) Haryana

### PART - (d) ENGLISH LANGUAGE

	ENGLISH L	ANG	UAG	E		
senter corres no err	tions: In questions 151 to 155, some part of the sentences errors and some have none. Find out which part of a nee has an error and blacken the rectangle [ ] ponding to the appropriate letter (A, B, C). If there is or, blacken the rectangle [ ] corresponding to (D) in aswer-Sheet.	with b altern altern	lanks to stives a ative of priate r	o be filled in wi re suggested for	th an appropri each question. nd indicate it n the Answer-	ntences are given ate word(s). Four Choose the correct by blackening the Sheet.
ine Ar	swer-Sneet.	130.	(A)	does it?	(B)	doesn'tit?
151.	I wasn't / at the last meeting and / (A) (B)		(C)	do it?	(D)	don't it?
	neither was you / No error. (C) (D)	157.		e aren't	mount	ains in that part
	× .		(A)	much	(B)	many
,	1:00		(C)	more	(D)	less
152.	The three individuals are so different / (A)	158.	Ano	ptimist thinks orld.	that all	well with
	that their tastes vary / from one another /		(A)	shall	(B)	will be
-	(C)	١,	19	is	(D)	was
ر	No error. (D)	159.	Only send		re afraid to s etters. (B)	ign their names,
153.	He remembered / that his visa / (A) (B)	,	(C)	official	(D)	informal
310	will be expired in a month / No error.	160.	The Mon	examinatio day.	will beg	in
	(D)	1	(M)	from	(B)	in
ā.			(C)	at	(D)	on
154.	When I shall see him / I shall / tell him / (A) (B) (C) No error.	alteri	iatives,	: In question choose the one word and mark	which best exp	i, out of the four resses the meaning ver-Sheet.
	(D)		Nov			
.01	*		(X)	beginner	(B)	virtuous
100			(0)	trainer	(D)	learner
155.	In any case no disciplinary action /	1	110000			0.00
	(A)	162.	Adv	ersary		
	1 1 (1 to to to) (No summ	1 2000	(A)	poverty	(B)	contestant
	are required / to be taken / No error. (B) (C) (D)		(0)	opponent	(D)	antagonistic

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163.	Dish	onour			Direc	ctions	: In questions 171 to	175, for	er alternatives are
	(A)	Infamy	(B)	Glory	given	for the	idiom/phrase. Cho	ose the	alternative which
	(0)	Uncouth	(0)	Wicked			es the meaning of the er-Sheet.	aiom/p	mruse una mark ti
	(0)	Oncount	100				ay havoc with		9.10
3 <b>.</b> 20100	١.		1		1,,,,	44)	to ruin	(B)	to alter
164.	Erud	ite	ane e			(C)	to swallow	(D)	to affect
	(A)	scholarly	(B)	friendly	Ι.,	(0)		(-)	77
	(C)	miserly	(D)	lovely	172.	herci	ulean task		A. 80
						(A)	an easy puzzle	(B)	a good contest
165.	Idea	1	-			(2)	a difficult thing	(D)	a hurried job
	(A)	comprehension	(B)	notion		V			
	(C)	emotion	OS	gist	173.		letter day		
			1			(A)	an unimportant d		
Dinas	tions :	In questions 166 to 17	cltans	e the word annosite		(B)	a festival occasion		
		to the given word and			,	JOY	an important day		
Sheet.	1	0				(D)	an insignificant o	ccasior	1
166.	Obvi	ous	1						
	(A)	simple	(B)	clear	174.	/	e of contention	_	
	(C)	difficult	(D)	vague	200	(A)	a matter of disput	e	
	(0)	direction .	-			(B)	a settled quarrel food for thought		
						(C) (D)	competition		
167.	Impl					(D)	compedition		
	VAY	explicit	(B)	implied	175.	Togi	ve currency		
,	(C)	explained	(D)	exquisite	1,5.	(A)	To make publicly	known	
			- 1			(A)	To misinterpret	Katowii	
168.	Capt	ure				(C)	To bestow import	ance	
	(A)	catch	(B)	detain		(D)	To originate		
	6	liberate	(D)	stop		(-)	0		-3
2	10	nocrate	(.)	5.00	Direc	tions:	In questions 176 to 1	80, a par	rt of the sentence is
	Ł	20			unde	rlined.	Below are given alter	rnatives	to the underlined
169.	Repu		5000				(B) and (C) which n		
	(A)	attractive	(B)	offensive	100000000000000000000000000000000000000		orrect alternative. I answer is (D).	n cuse n	o improvement is
	(C)	defensive	(D)	pensive	176.	. +-	rowed it out of the	windo	w.
						YAT	threw		
170.	Mise	ry	100			(B)	throw		
	(A)	sorry	(B)	careless		(C)	thrown		
	(C)	joy	(D)	content		(D)	No improvement		

		14							
177.		e hot afternoon, af		ng walk, I rested	183.	An in	strument for meas	uring w	rind pressure.
	unde	r the <u>shadow</u> of a t	ree.			(A)	Manometer	(B)	Micrometer
	(A)	shelter		143		(C)	Temperature -	(0)	Barometer
-	(B)	shade			2			Y	
	(C)	cool			184.	Todo	estroy completely		
	(D)	No improvement			1011		Annihilate	(B)	rehabilitate
						(A)		100	dislocate
178.		answer book will b omputer.	e answe	red with the help		(C)	incapacitate	(D)	distocate
	(A)	judged	(B)	tested	185.	to die	e in water or any oth	her liqu	id because one is
-	(0)	evaluated	(D)	seen	2001		le to breathe.		
. 6						(A)	sink	(B)	drown
179.	Marc	oni assembled the	radio.			(C)	flounder	(D)	founder
of .	(A)	Discovered				Diets		5755 75	
	(B)	Made			Disco	ctions	: In questions 186 to	190 on	ouns of four words
28	(C)	Invented			are gi	ven. It	ı each group, one wo	rd is cor	rectly spelt. Find
	(D)	No improvement			the co Sheet.	rrectly	spelt word and mark y	jour anst	ver in the Answer-
180.	Hes	howed great kind	to his fri	end.	186.	(A)	emanicipation -	(B)	emancipasion
	SAS	kindness				(C)	emancipation	(D)	emansipation
5	(B)	kind heart							
	(C)	kind hearted			187.	(K)	prejudice	(B)	prejudise
	(D)	no improvement			In Keney	(C)	predjudice	(D)	prejudis
	(D)	nomprovement			1	* 77	10-20-0	- 5000	100
n.i.	*****	: In questions 18	21 10 10	s out of the four	188.	NIN	surgeon	(B)	surjon
		choose the one which			100.	100000		2.5	- 1
given	word	s/sentence and indi rectangle [ <b>==</b> ] in the	icate it b	ry blackening the		(C)	surgen	(D)	surjun
181.	Abili	ity to go on inspite	of diffic	ulties	189.	(A)	potatos		
	(A)	delirious	(B)	desirous		(B)	potatoes		and the second
	(C)	perseverance	(D)	pervasive .		(C)	potatose	3	
							none of the above		
182.	i ni	umber of ships, ther under escort	vehicles	etc. travelling		(D)	none of the above		+ 2
	(A,	retinue	(B)	fleet	190.	(A)	ireversible	(B)	irreversible
	(C)	osse	(D)	convoy		(C)	irrevarsible	(D)	irravarsible

197. happily leisurely (B) Directions: In the following passage 191 to 200, some of the words have been left out. First read the passage over and (D) slowly thoroughly try to understand what it is about. Then fill in the blanks with the help of the alternatives given. Mark your answer in the Answer-Sheet. 198. paid (B) deemed (A) The great advantage of early rising is the good (C) forced expected 191 it gives us in our day's work. The early riser can do a large amount of work 192 other men get out of bed. In the early morning the mind is fresh, and there 199. hurry (A) run are few sounds or other 193, so that work done at (C) worry (D) ponder that time is generally 194. In many cases the early riser also finds time to 195 some exercise in the fresh morning air, and this exercise supplies him with cycle 200. epoch (B) a fund of energy that will last 196 the evening. By interval (D) (C) moment beginning so early, he knows that he has plenty of time to do 197 or the work he can be 198 to do, and is not tempted to 199 over any part of it. All his work being finished in good time, he has a long 200 of rest in the evening, before the timely hour when he goes to bed. habit (A). 191. kick (C) rise (D) start before 192. after (B) (D) while as distractions (B) attractions passions (D) contraptions **(**86) quickly done well done (D) secretly done (C) smartly done (B) 195. (A) perform act

(D)

t (B)

(D)

do

for.

by

196.

(A)

(C)

undergo

until

in

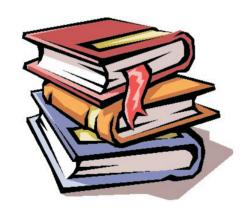
### **Answer**

(Q.1)B	(Q.2)A	(Q.3)A	(Q.4)B	(Q.5)C
(Q.6)C	(Q.7)A	(Q.8)C	(Q.9)D	(Q.10)D
(Q.11)C	(Q.12)B	(Q.13)C	(Q.14)D	(Q.15)C
(Q.16)C	(Q.17)D	(Q.18)D	(Q.19)A	(Q.20)A
(Q.21)D	(Q.22)C	(Q.23)D	(Q.24)D	(Q.25)A
(Q.26)B	(Q.27)D	(Q.28)D	(Q.29)A	(Q.30)C
(Q.31)D	(Q.32)C	(Q.33)C	(Q.34)B	(Q.35)C
(Q.36)D	(Q.37)C	(Q.38)D	(Q.39)D	(Q.40)C
(Q.41)C	(Q.42)C	(Q.43)D	(Q.44)A	(Q.45)D
(Q.46)A	(Q.47)A	(Q.48)C	(Q.49)A	(Q.50)D
(Q.51)A	(Q.52)C	(Q.53)B	(Q.54)A	(Q.55)C
(Q.56)D	(Q.57)C	(Q.58)C	(Q.59)C	(Q.60)C
(Q.61)D	(Q.62)A	(Q.63)C	(Q.64)C	(Q.65)C
(Q.66)D	(Q.67)A	(Q.68)A	(Q.69)C	(Q.70)D
(Q.71)B	(Q.72)B	(Q.73)D	(Q.74)B	(Q.75)A
(Q.76)B	(Q.77)A	(Q.78)C	(Q.79)A	(Q.80)D
(Q.81)D	(Q.82)C	(Q.83)C	(Q.84)A	(Q.85)C
(Q.86)D	(Q.87)C	(Q.88)B	(Q.89)A	(Q.90)D
(Q.91)C	(Q.92)D	(Q.93)B	(Q.94)D	(Q.95)C
(Q.96)D	(Q.97)D	(Q.98)A	(Q.99)D	(Q.100)A
(Q.101)D	(Q.102)D	(Q.103)B	(Q.104)B	(Q.105)C
(Q.106)A	(Q.107)B	(Q.108)A	(Q.109)A	(Q.110)B
(Q.111)D	(Q.112)B	(Q.113)D	(Q.114)B	(Q.115)B
(Q.116)B	(Q.117)C	(Q.118)B	(Q.119)B	(Q.120)B
(Q.121)B	(Q.122)C	(Q.123)A	(Q.124)D	(Q.125)B
(Q.126)A	(Q.127)B	(Q.128)D	(Q.129)B	(Q.130)B
(Q.131)C	(Q.132)C	(Q.133)D	(Q.134)C	(Q.135)B
(Q.136)B	(Q.137)C	(Q.138)B	(Q.139)B	(Q.140)B
(Q.141)B	(Q.142)D	(Q.143)B	(Q.144)C	(Q.145)A
(Q.146)B	(Q.147)D	(Q.148)B	(Q.149)B	(Q.150)C
(Q.151)C	(Q.152)D	(Q.153)C	(Q.154)A	(Q.155)B
(Q.156)A	(Q.157)B	(Q.158)C	(Q.159)B	(Q.160)D
(Q.161)A	(Q.162)C	(Q.163)A	(Q.164)A	(Q.165)B
(Q.166)D	(Q.167)A	(Q.168)C	(Q.169)A	(Q.170)C
(Q.171)A	(Q.172)C	(Q.173)C	(Q.174)A	(Q.175)A
(Q.176)A	(Q.177)B	(Q.178)C	(Q.179)C	(Q.180)A
(Q.181)C	(Q.182)D	(Q.183)D	(Q.184)A	(Q.185)B
(Q.186)C	(Q.187)A	(Q.188)A	(Q.189)B	(Q.190)B
(Q.191)D	(Q.192)B	(Q.193)A	(Q.194)B	(Q.195)C
(Q.196)B	(Q.197)C	(Q.198)D	(Q.199)B	(Q.200)D

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