FCI Accounts and Tech Cadres Question Paper

PART - (a) GENERAL INTELLIGENCE

Directions for question number 1 to 9:						Directions for question number 10 to 18:				
	t the r iatives:	elated word/letters/1	ıumbe	r from the given	Select	the one	e which is different fron	ı the otl	her three responses.	
1.		:PAT:DAM:?			10.	(A)	Work - Leisure			
	(A)	BUND	(B)	MAD		(B)	Day - Night			
	(C)	STOP	(D)	AMD		(C)	Expedite - Procras	tinate		
2.	8:18	3::24:?				(D)	Frequently - Alwa	ys		
	(A)	38	(B)	32				(T)	(2.02	
	(C)	44	(D)	43	11.	(A)	46, 24	(B)	62, 32	
3.	08:0	9::?:25				(C)	56, 30	(D)	74, 38	
	(A)	64	(B)	16	12.	(A)	RPSZ	(B)	AIUE	
	(C)	27	(D)	36	12.	(C)	QRTM	(D)	NQMR	
4.	ABC	:HIJ::OPQ:?				(C)	QKIIVI	(D)	T Q.VII.	
	(A)	WVX	(B)	VWX	13.	(A)	441	(B)	256	
	(C)	XWV	(D)	VXW		(C)	481	(D)	361	
5.	6:35	5::9:?								
	(A)	18	(B)	27	14.	(A)	EBD	(B)	IFH	
	(C)	53	(D)	72		(C)	URT	(D)	YWX	
6.		ary:Books::Bank:		_	15	(A)	Cristos	(B)	Hockey	
	(A)	Cheque	(B)	Loan	15.	(A)	Cricket	(B)	•	
	(C)	Money	(D)	Account		(C)	Shuttle Cock	(D)	Tennis	
7.		d:Father::Book:?			16.	(A)	BCDE	(B)	JKLM	
	(A)	Author	(B)	Publisher		(C)	STVU	(D)	WXYZ	
	(C)	Editor	(D)	Library		(0)	5110	(-)		
8.		CRIME::?			17.	(A)	3216	(B)	2338	
	(A)	MAN: ANIMAL HOME: COURT				(C)	3205	(D)	2015	
	(B) (C)	MORALITY: LEG	ALITY	<u>(</u>						
	(D)	JURY: PRIEST			18.	(A)	SUNFLOWER OI	_		
9.	CEG	I:XVTR::DFHJ:?				(B)	COCONUTOIL			
,.	(A)	XTRT	(B)	XQOM		(C)	PALM OIL			
	(C)	ZVSO	(D)	WUSQ		(D)	SANDAL WOOD	OIL		



Directions for question number 19 and 20	Directions t	for at	iestion	number	19	and	20	:
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Which one of the given responses would be a meaningful order of the following words in ascending order?

- Hundred 19. (1)
- Unit (2)
- Thousand (3)
- (4)Tens
- Lakh (5)
- 2, 4, 1, 3, 5 (A)
- 4, 1, 3, 2, 5 (B)
- (C) 5, 1, 2, 3, 4
- (D) 5, 1, 3, 4, 2
- 20. Lucknow (1)
- Utter Pradesh (2)
- India (3)
- (4)World
- (5)Asia
- 1, 2, 3, 5, 4 (A)
- **(B)** 4, 1, 2, 3, 5
- (C) 5, 1, 2, 3, 4
- 5, 1, 3, 2, 4 (D)
- Which will appear 4th in the English 21. dictionary?
 - QUICK (A)
- QUESTION (B)
- (C)QUALITY
- **QUIT** (D)
- Which one set of letters when sequentially placed 22. at the gaps in the given letter-series shall complete it?

$$-A'B-B'AA'-BB'-A$$

- (A) A' BAB'
- A' B' AB
- ABAB (C)
- (B) AB' A' B (D)

Directions for question number 23 to 26:

Choose the correct alternative from the given ones that will complete the series.

- 23. 3, 7, 13, 21, 31, **?**
 - 33 (A)
- (B) 36
- (C) 41
- (D) 43
- FUGT, HSIR, JQKP _ 24.
 - (A) KNLO
- (B) LNNM
- LOMM (C)
- (D) LOMN
- 25. ACE, GIK, MOQ, _
 - (A) **SUW**
- XYZ (B)
- **ABC** (C)
- DFG (D)

- 26. 30, 68, 130, 222, _ 520, 738.
 - 420 (A)
- 350 (B)
- (C)250
- (D) 280
- In a certain code "KINDLE" is coded 27. as "ELDNIK" how is "EXOTIC" coded in that code?
 - **EXOTLC** (A)
- CXOTIE (B)
- (C) COXITE
- (D) CITOXE
- 28. Devendra is older by 4 years to Rajendra. After 16 years Devendra will be thrice his present age and Rajendra will be five times of his present age. How old would Rajendra be after 16 years?
 - 30 years (A)
- (B) 25 years
- (C) 24 years
- ·20 years
- From the given alternatives select the word which 29. cannot be formed by using the letters of the given word.

MORTGAGE

- **AROMA** (A)
- (B) **GEAR**
- ROAM (C)
- **GRATE** (D)
- From the given alternatives select the word which 30. can be formed by using the letters of the given word.

RECOMMENDATION:

- COMMUNICATE (B) (A)
- **MEDIATES**
- **MEDICO** (C)
- (D) REMINDER
- Hari is older than Chaman. Vijai is older than 31. Satish. Mukesh is not as old as Vijai but is older than Chaman. Satish is not as old as Chaman. Who is the yongest?
 - (A) Hari
- Mukesh (B)
- (C) Chaman
- Satish (D)



- **32.** 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
- 37. 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
- Select the correct combination of mathematical signs to replace * signs and to balance the given equation.

24 * 2 * 4 * 3

- $(A) = \div \times$
- (B) + ÷ =
- (C) ÷ = ×
- (D) $= \times \div$
- 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:

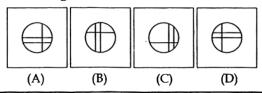
Two statements are given followed by two conclusions (I) and (II). You have to consider the statements to be true even if they seem to be at variance from commonly known facts. You are to decide which of the given conclusions, if any, follow from the given statements. Indicate your answer.

- 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.
 - (2) All readers are lawyers.
 - Conclusion: (I) 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

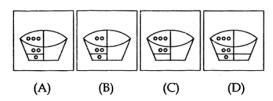


46. Which of the answer figure is exactly the mirror image of the given figure, when the mirror is held on the line AB?

Question figure



Answer figures



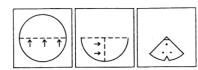
47. A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as in two matrices given below. The columns and rows of matrix I are numbered from 0 to 4 and that of Matrix II are numberd 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.

		e N	1atı	ix -	I	Matrix - II						
		0	1	2	3	4		5	6	7	8	9
51	0	E	Α	R	W	P	5	S	В	K	T	C
	1	W	P	Α	E	R	6	В	C	T	K	S
	2	Α	W	P	R	Ε	7	Т	S	С	В	K
	3	P	R	E	Α	W	8	K	T	S	С	В
	4	R	E	W	P	Α	9	С	K	В	S	T
(A) 00 12 76 58							((B)	3	2 34	76	68
(C) 41 20 77 59						(D) 24 02 55			76			

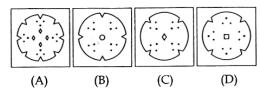


48. A piece of paper is folded and cut as shown below in the question figures. From the given answer figures, indicate how it will appear when opened?

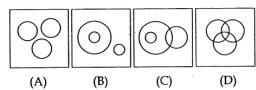
Question figures



Answer figures



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

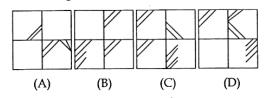


50. Select the answer figure in which the question figure is hidden/embedded.

Question figure



Answer figures



FOR VISUALLY HANDICAPPED CANDIDATES ONLY.

45. How many 5's immediately preceded by 9 but not immediately followed by 2 are there in the following series?

52 85 92 19 56 16 54 21 59 58 27 95 21

- (A) 1
- (B) 2
- (C) 4
- (D) 6
- 46. 'N' has ₹35 more than 'M'. 'M' and 'N' together have a sum of ₹99. The amounts with 'M' and 'N' respectively are:
 - (A) ₹ 32 and ₹ 67
- (B) ₹ 33 and ₹ 66
- (C) ₹ 36 and ₹ 71
- (D) ₹ 66 and ₹ 33
- 47. Which single letter when prefixed to the following forms new words.

ASH ATE APE

- (A) G
- (B) R
- (C) T
- (D) None or more than one letter
- 48. Two numbers are in the ratio 4:5. If the difference between them is 5, what will be the total of the numbers?
 - (A) 20

35

- (B) 25
- (C)
- (D) 45
- 49. In a row Raghu is 7th the from the right and Satish is also 7th from the left. When they interchange their positions, Satish becomes 15th from the left. What will be the Ragu's new position from the right?
 - (A) 15th
- (B) 16th
- (C) 17th
- (D) 20th
- 50. If August First is Sunday in 2004. What day was it in 2003?
 - (A) Saturday
- (B) Friday
- (C) Tuesday
- (D) Wednesday



PART - (b)

GENERAL AWARENESS

				OLIVEIU I	., ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
51.	In w	hich year did Gar	ndhiji s	tart Satyagraha	59.	The r	nethod not used a	as a Biolo	gical control is:
	Mov	ement?				(A)	Use of predator	s of a pest	t.
	(A)	1919	(B)	1927		(B)	Pheromone trap	os.	
	(C)	1934	(D)	1942		(C)	Use of pesticide		
						(D)	Use of neem ext		
52.	An e	cosystem consists o				(D)	OSC OF FICEIT CAL	ructo.	
	(A)	producers, consu in a particular ar	ea.		60.		States in India nomy from the cen		
	(B)	all the plants and				(A)	Legislative	(B)	Administrative
	(C)	a living commun				(C)	Financial	(D)	All the above
	(D)	carnivorous and	nerbivo	orous of an area		(0)	2 22 (40-20-20-20-20-20-20-20-20-20-20-20-20-20	(-)	
53.	The	telephone was inve	nted by	<i>r</i> :	61.	Ligh	t houses are place	s with po	werful lights to
	(A)	G. Marconi				(A)	guide and resol	ve traffic	jams in crowded
	(B)	Alexander Graha	ım Bell				metro-cities du	ring nigh	ts.
	(C)	J.L. Baird				(B)	guide and help		
	(D)	Thomas Barrow					gatherings duri		
54.	The	crop mainly growr	in hills	s is:		(C)	indicate to the		
54.	(A)	sweet corn	(B)	sweet jowar			location of a ha		
	(C)	sweet potato	(D)	sweet pea		(D)	guide and war different direct	n the shi	ps coming fron
	` '	•		•			amerent airect	ions in ui	e ocean.
55.		o is called as the 'Pr		of New India'?	62.	In a	Capitalistic Ed	onomy,	the Prices are
	(A)	Dayanand Saras					rmined by:	,	
	(B)	Sri Ramakrishna				(A)	Demand and S	uppĺy	
	(C)	Raja Ram Mohai Swami Vivekana	•			(B)	Government A		
	(D)	Swanu vivekana	uiua			(C)	Buyers in the M		
56.	Ethi	nic group Mongoloi	ids are f	found in India in :		(D)	Sellers in the M		
	(A)	Southern region			١.	(D)	Scheis III die IV	ui Act	
	(B)	South-central reg			63.	Who	o of the following h	nas not be	en an interlocuto
	(C)	North-western re		•			ammu & Kashmir		
	(D)	North-eastern re	gion			(A)	M.M. Ansari		
57.	Who	en a vibrating tuning	g fork is	placed on a table,		(B)	Radha Kumar		
		ud sound is heard.				(C)	Shujaat Bukha	ri	
	(A)	reflection				(D)	Dilip Padgaon	kar	
	(B)	refraction				•			
	(C)	forced vibrations	5		64.	The	Zone of Earth's	atmosph	ere immediatel
	(D)	damped vibration	ons			abo	ve its surface up t ve equator and 8 k	o a heigh ms over tl	t of about 16 km ne poles is know
58.	An	insect - catching pl	ant is :			as:		-	
	(A)	Australian Acad	cia (B)	Smilax		(A)	Mesosphere	(B)	Thermospher
	(C)	Nepenthes	(D)	Nerium		(C)	Troposphere	(D)	Stratosphere

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(C) Nepenthes



(D) Nerium

(C) Troposphere

65.	The te	erm 'Pitcher' is asso	ciated	with:	76.	The N	National Developme	nt Cou	ncil includes :	,
	(A)	Wrestling	(B)	Boxing		(A)	all central Cabinet	Minist	ers	
	(C)	Baseball	(D)	Basketball		(B)	Chief Ministers of			
66.	The fi	lament of electric b Copper	ulb is n (B)	nade up of : Nichrome		(C)	Cabinet Ministers of Centre.	of all th	e States and the	e
	(C)	Lead	(D)	Tungsten		(D)	Members of the Esti	mates (Committee of th	e
67.	Whic	h of the following is Jute	called (B)	"brown paper" ? Cotton			Parliament			
	(A) (C)	Rubber	(D)	Tea	77.		h of the following uctivity in Indian ag			V
68.		ular State is one wl				(A)	Co-operative farm	_		
	(A)	has no religion of	its ow	1		(B)	Inadequate inputs			
	(B) (C)	is irreligious is anti-religion				(C)	Sub-division and	fragme	entation of land	d
	(D)	takes into consid	leratio	n the religious		(D)	holdings	1 4	(iliti	
	,	sentiments of the p		1		(D)	Poor finance and n	narketi	ng racilities.	
69.	What	does Jahangir mea	n?		78.		gas that is used ir	the r	nanufacture o	f
	(A)	National Monarch				vana	spati ghee is :			
	(B)	The Grand Monar				(A)	Oxygen			
	(C) (D)	Conqueror of the v Hero of hundred l				(B)	Carbon dioxide			
	` '		Juitees			(C)	Hydrogen			
70.	Gol (A)	Gumbaz is in : Konark	(B)	Hyderabad		(D)	Nitrogen			
	(C)	Puri	(D)	Bijapur	79.	Cem	ent is usually a mixt	ure of :	* en	
71.		arly Buddhist script	, .	ere composed in :		(A)	Calcium silicate a	nd calc	ium aluminate	ì
/1.	(A)	Prakrit texts	uics W	cre composed ar.		(B)	Calcium silicate ar	nd calc	ium ferrate	
	(B)	Pali texts				(C)	Calcium aluminat			
	(C)	Sanskrit texts			1	(D)	Lime stone and sil	icon di	ioxide	
	(D)	Pictographical tex			80.	Whi	ch of the following i	s not a	Hardware?	
72.		ohanjadaro, the lar	gest bu	ilding is :	***	(A)	Processor chip	(B)	Printer	
	(A)	the great bath				(C)	Mouse	(D)	Java	
	(B) (C)	a granary the Pillared Hall				• •				
	(D)	a two storeyed ho	use		81.		vy is caused due to t			
73.	Whe	re was the Royal Du	rbar h	eld on November		(A)	Vitamin - D	(B)	Vitamin - K Vitamin - C	
		858 to issue the Qu				(C)	Vitamin - E	(D)	Vitaliiii - C	
	(A)	Lucknow	(B)	Cawnpore	82.	Acco	ording to a study con	ducted	by Hyderabad	's
	(C)	Delhi	(D)	Allahabad			onal Institute of Nu			
74.	Male (A)	(Anopheles) mosq Blood of man	uito fe	eds on :		max	esh fruits commonly imum 'Goodness In	dex' is	:	tn
	(B)	Nectar of flower					Indian Plum	(B)	Mango	
	(C)	Blood of Culex			1	(C)	Guava	(D)	Custard appl	le
	(D)	Blood of Leech			83.	The	Parliament can legis	late on	subjects given	in
75.		h paste is a product				the (Jnion List only in co	nsultati		
	(A)	Monopolistic Cor Perfect Competiti		On	1	Gov	ernment for the State	e of:		
	(B) (C)	Monopoly	011			(A)	Assam	(B)	Rajasthan	
	(D)	Duopoly				(C)	Jammu & Kashmi	r (D)	Kerala	

- **84.** Tsunamis are waves generated by:
 - (A) Earthquakes beneath the Sea
 - (B) Moon's pull
 - (C) High tides of the oceans
 - (D) Cyclones
- 85. Which is the largest State of India?
 - (A) Madhya Pradesh
 - (B) Andhra Pradesh
 - (C) Rajasthan
 - (D) Maharashtra
- **86.** Which one of the following is a system software?
 - (A) Database programs
 - (B) Word processors
 - (C) Spreadsheets
 - (D) Compilers
- 87. A piece of wood is held under water. The upthrust on it will be:
 - (A) equal to the weight of the wood
 - (B) less than weight of the wood
 - (C) more than weight of the wood
 - (D) zero
- **88.** Kamakhya temple is an important place of tourism in the State of :
 - (A) Tamil Nadu
 - (B) Assam
 - (C) Himachal Pradesh
 - (D) Manipur
- 89. Electric bulbs are filled with:
 - (A) Nitrogen
 - (B) Carbon dioxide
 - (C) Argon
 - (D) Oxygen
- **90.** The atmospheric gas that is mainly responsible for Green House effect:
 - (A) Ozone
- (B) Nitrogen
- (C) Oxygen
- (D) Carbondioxide
- 91. Wisdom teeth is the :
 - (A) 1st molar teeth
- (B) 2nd molar teeth
- (C) 3rd molar teeth
- (D) 4th molar teeth

- 92. Who of the following pairs of Nobel Laureates in Physics was awarded 2010 Nobel Prize?
 - (A) John C Mather, George F. Smoot
 - (B) Albert Fert, Peter Grunberg
 - (C) David J Gross, Frank Wilczek
 - (D) Andre Geim, Konstantin Novoselov
- 93. 'Tabal Chongli' is a form of folk dance associated with the State of :
 - (A) West Bengal
- (B) Assam
- (C) Andhra Pradesh
- (D) Maharashtra
- **94.** Who is the supreme Commander-in-Chief of armed forces of the country?
 - (A) Defence Minister
 - (B) Prime Minister
 - (C) Senior-most among the three Service Chiefs.
 - (D) President
- 95. Which of the following is correctly matched?
 - (A) Assam-Itanagar
 - (B) Arunachal Pradesh-Guwahati
 - (C) Tripura-Agartala
 - (D) Nagaland-Shillong
- 96. The purest form of Iron is:
 - (A) Cast iron
- Steel
- (C) Pig iron
- (D) Wrought iron
- 97. The caste system of India was created for:
 - (A) immobility of labour
 - (B) recognition of the dignity of labour
 - (C) economic uplift
 - (D) occupational division of labour
- 98. The iron ore which contains 72% of iron is:
 - (A) Magnetite
- (B) Limonite
- (C) Haematite
- (D) Siderite
- Surat is located on the banks of the river :
 - (A) Narmada
- (B) Sharavathi
- (C) Mahi
- (D) Tapti
- 100. The tusk of elephant is an enormously enlarged:
 - (A) upper incisor
- (B) upper canine
- (C) lower canine
- (D) lower incisor

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PART - (c)

QUANTITATIVE APTITUDE

101.	Ratio 1 year	of the principle ar r is 10:12. Then th	nd the e rate	amount after of interest per	108.	25a ² -	= 23 and b = -29, +40ab + 16b ² is :		
	annur					(A)	1	(B)	-1
	(A)	12%	(B)	16%		(C)	0	(D)	2
	(C)	18%	(D)	20%	109.	If (2x	$(2^y) = 8$ and $(9^x)(3^y)$	= 81, t	hen (x, y) is :
102.	Δ soli	d cone of height 9 c	m witi	h diameter of its	2051	(A)	(1, 2)	(B)	(2, 1)
102.	hase 1	8 cm is cut out from	a woo	den solid sphere		(C)	(1, 1)	(D)	(2, 2)
		ius 9 cm. The perce				` '			1-101 Tho
	is	•			110.		chord of a circle is kn		be 10.1 cm. The
	(A)	25	(B)	30			us of this circle must	be:	
	(C)	50	(D)	75	1	(A)	5 cm		
102	Th . 1	ength of the chord	of a ci	rcle is 8 cm and		(B)	greater than 5 cm greater than or equ	ial to 5	icm
103.	ne ie	endicular distance b	oi a ci etwee	n centre and the		(C) (D)	less than 5 cm	iai to o	·CIII
	chord	l is 3 cm. Then the	radiu	s of the circle is		• •			
	equal				111.	Both	the end digits of a 9	9 digit	number N are 2.
	(A)	4 cm	(B)	5 cm			divisible by 11, then a		
	(C)	6 cm	(D)	8 cm		(A)	1	(B)	2
	` '					(C)	3	(D)	4
104.	InΔA	ABC , $\angle BAC = 90^{\circ}$ and	AB =	$=\frac{1}{2}$ BC. Then the	112.	If 0 <	$x < \frac{\pi}{2}$ and $\sec x = \cot x$	osec v,	then the value of
	meas	ure of ∠ACB is:					2	3,	
	(A)	60°	(B)	30°		•	(x+y) is	(D)	1
	(C)	45°	(D)	15°		(A)	0	(B)	
105	The	verage of 5 number	e ie 14	Ω If one number		(C)	$\frac{1}{2}$	(D)	$\frac{1}{\sqrt{3}}$
105.	is ev	cluded, the average	re of	the remaining 4			•		, ,,
	num	bers is 130. The excl	uded	number is :	113.	A so	olid wooden toy is	in the	shape of a right
	(A)	135	(B)	134		circu	alar cone mounted o	na he	emisphere. If the
	(C)	180	(D)	150		radi	us of the hemispher ht of the toy is 10.2 cm	e 15 4.2 n find	the volume of the
	` '		.				den toy (nearly).	ii, iii lu	are volume of the
106.	If to	ys are bought at	₹ 5 еа	ach and sold at		(A)	104 cm ³	(B)	162 cm ³
		0 each, then the loss 10%	(B)	11%	1	(A) (C)	427 cm ³	(D)	266 cm ³
	(A)	10 %	(D)	13%	1	` '		` '	
	(C)		` '		114.	A ca	an do a piece of wor	k in 1	2 days. B is 50%
107.	Wha	t is the greatest nur	nber v	vhich will divide			e efficient than A. Ir	n now i	many days b Will
	110 a	ınd 128 leaving a reı					sh the same work?	(P)	8 days
	(A)	8	(B)	18		(A)	6 days	(B)	24 days
	(C)	28	(D)	38		(C)	12 days	(D)	24 days
-				SPACE FOR I	ROUG	H W	ORK		



- 115. Each interior angle of a regular polygon is three times its exterior angle, then the number of sides of the regular polygon is:
 - (A)
- (B) 8
- (C) 10
- (D) 7
- 116. 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 (A)
- ₹ 1500 (B)
- ₹ 150 (C)
- (D) ₹ 15
- 117. The ratio of the radii of two circles is 1:2, then the ratio of their area is:
 - (A) 1:2
- (B) 2:1
- (C) 1:4
- (D) 4:5
- 118. The true discount on a sum of money due 2 years hence at 5% is ₹15. Find the sum.
 - (A) 150
- 165
- 170 (C)
- 160 (D)
- 119. The average weight of 5 persons sitting in a boat 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?
 - (A) 228 kg
- (B) 122 kg
- 232 kg (C)
- (D) 242 kg
- 120. The value of the expression

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

- (A) 0
- (B) 1
- 2 (C)
- (D) 3
- 121. In a cylindrical vessel of diameter 24 cm filled up 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
- (B) 2 cm
- (C)3 cm
- 4.2 cm (D)

- 122. If $x \frac{1}{x} = 5$, then $x^2 + \frac{1}{x^2}$ is:
- (C)
- 123. Each side of an equilateral triangle is 6 cm. Find its area.
 - $9\sqrt{3}$ sq cm (A)
- (B) $6\sqrt{3}$ sq cm
- $4\sqrt{3}$ sq cm (C)
- (D) $8\sqrt{3}$ sq cm
- 124. If $\sin 17^\circ = \frac{x}{y}$, then the value of $\sec 17^\circ \sin 73^\circ$

- (A)

- 125. The distance between Howrah and New Delhi via Patna iš 1440 km, and the distance between Howrah and New Delhi via Gaya is 5% less. Then the distance between the places via Gaya (in kms) is
 - (A) 1398
- 1368
- (C)1388
- (D) 1268
- The value of **126.**

tan1° tan2° tan3°.....tan89° is

- (A)
- 0
- (C) $\sqrt{3}$
- (D)
- 127. $0.\overline{123}$ is equal to
 - 14 (A) 333
- 41 333
- 123 (C)
- 441
- 128. ABCD is a cyclic parallelogram. The angle ∠B is equal to:
 - 30° (A) 45°
- 60° **(B)** (D) 90°
- (C) SPACE FOR ROUGH WORK

- 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) $24\sqrt{3}$ 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) $2\sqrt{3}$ 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) $(4-2\pi)$ 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)

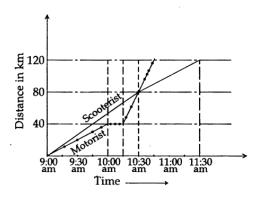
140. If $x = 3 + 2\sqrt{2}$, then the value of $\left(\sqrt{x} - \frac{1}{\sqrt{x}}\right)$ is

- (A) 1
- (B) 2
- (C) $2\sqrt{2}$
- (D) $3\sqrt{3}$

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

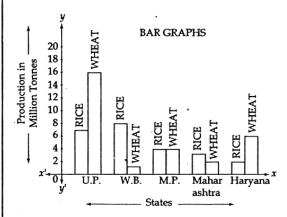
144. The scooterist completes the journey in (hrs).

- (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)

- **149.** Which of the above States is least producer of 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

FOR VISUALLY HANDICAPPED CANDIDATES ONLY.

- Reena and Shaloo are partners in a business. Reena invests ₹ 35,000 for 8 months and Shaloo invests ₹ 42,000 for 10 months. Out of a profit of ₹ 31,570, Reena's share is:
 - (A) ₹ 9,471
- (B) ₹ 12,628
- (C) ₹ 18,040
- (D) ₹ 18,942
- 143. A can build a wall in 30 days which B can build in 40 days. If they build it together and get a payment of ₹ 700, what is B's share?
 - (A) ₹ 250
- (B) ₹ 275
- (C) ₹ 300
- (D) ₹ 325
- 144. In a certain time if ₹ 8,000 at 3% simple interest per annum produces the same earning as ₹ 6,000 does in 5 years at 4% simple interest per annum then the time (in years) for first case is
 - (A) 3
- (B) 5
- (C) 4
- (D) 6
- 145. If 159 is multiplied first by 367 and then by 482, which of the following number would finally come at the unit place?
 - (A) 2
- (B) 4
- (C) 6
- (D) 3

- 146. Average marks of 10 students is 60. Marks of two students were altered as 50 instead of 40 and 30 instead of 40. The new average is
 - (A) 59
- (B) 61
- (C) 60.5
- (D) 60
- 147. The point of intersection of two straight lines x+2=0 and 3y=6 is:
 - (A) (2,2)
- (B) (-2, 2)
- (C) (2, -2)
- (D) (2, 6)
- 148. The altitude of an equilateral triangle is $2\sqrt{3}$ cm. Then its perimeter will be:
 - (A) 6 cm
- (B) 8 cm
- (C) 12 cm
- (D) 9 cm
- 149. The value of $\frac{4}{\sec^2\theta} + \frac{1}{1 + \cot^2\theta} + 3\sin^2\theta$ is
 - (A) 3
- (B) 2
- (C) 4
- (D) 1
- 150. The value of k for which $(x^2 2kx + 4)$ is a perfect square for all real values of x is
 - (A) 2 only
- (B) -2 only
- (C) ± 2
- (D) 1

PART - (d) **ENGLISH LANGUAGE**

with blanks to be filled in with an appropriate word(s). Four

Directions: In questions 151 to 155, some part of the sentences | Directions: In questions 156 to 160, sentences are given have errors and some have none. Find out which part of a sentence has an error and blacken the rectangle [alternatives are suggested for each question. Choose the correct

	sponding to the appropriate letter (A, B, C). If there is or, blacken the rectangle [m] corresponding to (D) in	alternative out of the four and indicate it by blacked appropriate rectangle [] in the Answer-Sheet.						
the A	nswer-Sheet.	156.		hardly counts, _				
151.	I wasn't / at the last meeting and /		(A)	does it ?	(B)	doesn't it?		
131.	(A) (B)		(C)	do it?	(D)	don't it?		
	neither was you / No error. (C) (D)	157.		re aren't e country.	moun	tains in that part		
			(A)	much	(B)	many		
			(C)	more	(D)	less		
152.	The three individuals are so different /							
	(A) that their tastes vary / from one another /	158.		ptimist thinks tha vorld.	at all	, well with		
	(B) (C)		(A)	shall	(B)	will be		
			(C)	is	(D)	was		
	No error.							
	(D)	159.		people who are a		sign their names,		
			(A)	unanimous	(B)	anonymous		
153.	He remembered / that his visa / (A) (B)		(C)	official	(D)	informal		
	will be expired in a month / No error. (C) (D)	160.	The examination will beginMonday.					
	(-)		(A)	from	(B)	in		
			(C)	at	(D)	on		
154.	When I shall see him / I shall / tell him / (A) (C) No error.	altern	iatives,	: In questions 1 choose the one whic word and mark it in	ch best exp	resses the meaning		
	(D)	161.	Nov	ice				
			(A)	beginner	(B)	virtuous		
			(C)	trainer	(D)	learner		
155.	In any case no disciplinary action /							
	(A)	162.	Adv	ersary				
	are required / to be taken / No error.		(A)	poverty	(B)	contestant		
	(B) (C) (D)		(C)	opponent	(D)	antagonistic		



163.	Dish	onour		
	(A)	Infamy	(B)	Glory
	(C)	Uncouth	(D)	Wicked
164.	Erud	ite		
	(A)	scholarly	(B)	friendly
	(C)	miserly	(D)	lovely
165.	Idea			
	(A)	comprehension	(B)	notion
	(C)	emotion	(D)	gist
	aning	In questions 166 to 13 to the given word an		
166.	Obvi	ious		
	(A)	simple	(B)	clear
	(C)	difficult	(D)	vague
167.	Impl	licit		
	(A)	explicit	(B)	implied
	(C)	explained	(D)	exquisite
168.	Capi	ture		
	(A)	catch	(B)	detain
	(C)	liberate	(D)	stop
169.	Rep	ulsive		
	-	attractive	(B)	offensive
		defensive	(D)	
170.	Mise	rrv		

sorry

joy

(C)

Directions: In questions 171 to 175, four alternatives are given for the idiom/phrase. Choose the alternative which best expresses the meaning of the idiom/phrase and mark it in the Answer-Sheet.

171. to play havoc with

- (A) to ruin (B)
- (B) to alter
- (C) to swallow
- (D) to affect

172. herculean task

- (A) an easy puzzle
- (B) a good contest
- (C) a difficult thing
- (D) a hurried job

173. a red letter day

- (A) an unimportant day
- (B) a festival occasion
- (C) an important day
- (D) an insignificant occasion

174. a bone of contention

- (A) a matter of dispute
- (B) a settled quarrel
- (C) food for thought
- (D) competition

175. To give currency

- (A) To make publicly known
- (B) To misinterpret
- (C) To bestow importance
- (D) To originate

Directions: In questions 176 to 180, a part of the sentence is underlined. Below are given alternatives to the underlined part at (A), (B) and (C) which may improve the sentence. Choose the correct alternative. In case no improvement is needed your answer is (D).

176. He throwed it out of the window.

- (A) threw
- (B) throw
- (C) thrown
- (D) No improvement

(B)

careless

content

177.		hot afternoon, after the shadow of a tre		g walk, I rested	183.	•				
	(A)	shelter				(A)	Manometer	(B)	Micrometer	
	(B)	shade				(C)	Temperature	(D)	Barometer	
	(C)	cool			e.					
	(D)	No improvement			184.	To de	stroy completely			
						(A)	Annihilate	(B)	rehabilitate	
178.		answer book will be omputer.	answei	red with the help		(C)	incapacitate	(D)	dislocate	
	(A)	judged	(B)	tested	185.	to die in water or any other liquid because one				
	(C)	evaluated	(D)	seen	2001	unable to breathe.				
						(A)	sink	(B)	drown	
179.	Marc	oni <u>assembled</u> the ra	adio.			(C)	flounder	(D)	founder	
	(A)	Discovered								
	(B)	Made		•	Direc	tions	: In questions 186 to 1	90 , gro	ups of four words	
	(C)	Invented			are gi	ven. In	each group, one word	l is cor	rectly spelt. Find	
	(D)	No improvement		:	Sheet.		spelt word and mark yo	ur ansu	ver in the Answer-	
180.	He sh	nowed great <u>kind</u> to	his frie	end.	186.	(A)	emanicipation	(B)	emancipasion	
	(A)	kindness				(C)	emancipation	(D)	emansipation	
	(B)	kind heart								
	(C)	kind hearted			187.	(A)	prejudice	(B)	prejudise	
	(D)	no improvement				(C)	predjudice	(D)	prejudis	
Direc	tions	: In questions 181	to 185	5, out of the four	188.	(A)	surgeon	(B)	surjon	
		choose the one which				(C)	surgen	(D)	surjun	
~		/sentence and indica ectangle [==] in the A				(-)	8	()		
181.	Abili	ty to go on inspite of	f diffic	ulties.	189.	(A)	potatos			
	(A)	delirious	(B)	desirous		(B)	potatoes			
	(C)	perseverance	(D)	pervasive		(C)	potatose			
						(D)	none of the above			
182.		ımber of ships, ve her under escort	hicles	etc. travelling		(5)	none of the above			
	(A)	retinue	(B)	fleet	190.	(A)	ireversible	(B)	irreversible	
	(C)	posse	(D)	convoy		(C)	irrevarsible	(D)	irravarsible	



Directions: In the following passage 191 to 200, some of the words have been left out. First read the passage over and 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.

The great advantage of early rising is the good 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 are few sounds or other 193, so that work done at 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 a fund of energy that will last 196 the evening. By 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.

when	ne go	es to bed.		
191.	(A)	kick	(B)	habit
	(C)	rise	(D)	start
192.	(A)	after	(B)	before
	(C)	while	(D)	as
193.	(A)	distractions	(B)	attractions
	(C)	passions	(D)	contraptions
194.	(A)	quickly done	(B)	well done
	(C)	smartly done	(D)	secretly done
195.	(A)	perform	(B)	act
	(C)	do	(D)	undergo
196.	(A)	for	(B)	until
	(C)	by	(D)	in

197.	(A)	happily	(B)	leisurely
	(C)	thoroughly	(D)	slowly
198.	(A)	paid	(B)	deemed
	(C)	forced	(D)	expected
199.	(A)	run	(B)	hurry
	(C)	worry	(D)	ponder
200.	(A)	epoch	(B)	cycle
	(C)	moment	(D)	interval

- o 0 o -

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