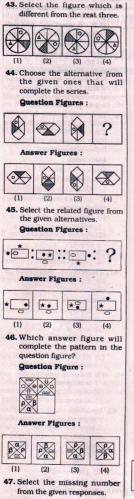
	12. Which She deat Wetters when at	ionobservescom/forum
GENERAL INTELLIGENCE	sequentially placed at the	(1) 950 (2) 400
Directions (1 - 7) : In the	gaps in the given letter series	(3) 900 (4) 800
following quasetions select the	shall complete it?	18. DKY, FJW, HIU, JHS, ?_
related letters/word/ number from	bc_bca_cab_ab_a_ca	(1) KGR (2) KFR
the given alternatives.	(1) abccb (2) cabca	(2) LFQ (4) LGQ
1. Smoke : Pollution :: War : ?	(3) abcab (4) cabac	19. 7, 8, 11, 16, 23, <u>?</u>
(1) Treaty (2) Destruction	13. In the following letter series,	(1) 37 (2) 40
(3) Peace (4) Victory	how many B C N occur in such	(3) 31 (4) 32
2. 12 : 30 :: 18 : ?	a way, that C is in the middle	20. If B= 2, BAG = 10, then BOX
(1) 44 (2) 45	and B and N are on any one	=?
(3) 36 (4) 42	side?	(1) 41 (2) 52
3. 85 : 40 ::77 : 2	BCMXNCXNBXNCBNCB	(3) 36 (4) 39
(1) 49 (2) 50	YBCXNBCNABONMZCB	21. If DISC is coded as 8749 and ACHE is coded as 3950, then
	(1) 5 (2) 3	HEAD is coded as
(3) 14 (4) 48 4. KNQT : LORU :: ADGJ : 2	(3) 4 (4) 2	(1) 3508 (2) 3805
	14. Find out the set among the four sets which is like the given	(3) 5038 (4) 5308
	set.	22. If January 1st is a Friday, what
(3) BEHK (4) FHLO		is the first day of the month of
5. DRIVEN : NEVIRD : : BEGUM	Given set is (6 : 12 : 18)	March, in a leap year?
:?	(1) (6:20:26)	(1) Thursday (2) Friday
(1) EBGMU (2) MUGEB	(2) (30 : 36 : 42)	(3) Tuesday (4) Wednesday
(3) MEUBG (4) BGMUE	(3) (4:8:14)	23. Barun is taller than Sanjay.
6. Smell : Flower :: Taste : 2	(4) (12:24:36)	Bipul is taller than Barun.
(1) Food (2) Sweet	15. Which one of the given responses would be a	Krishna is also not as tall as Bipul, but is taller than
(3) Water (4) Salt	meaningful order of the	Barun. Who is the tallest?
7. Introvert : Extrovert :: 2	following in ascending order?	(1) Krishna (2) Sanjay
(1) Against : Favour	1. Sending 2. Encoding	(3) Barun (4) Bipul
(2) Action : Law	3. Receiving 4. Decoding	24. Rajan is younger than his
(3) Angle : Tangent	(1) 1, 2, 3, 4 (2) 2, 1, 3, 4	father by 20 years. 5 years ago
(4) Extreme : Interim	(3) 2, 4, 3, 1 (4) 4, 2, 1, 3	his father was 3 times elder
Directions (8 - 11) : In the following questions, find the odd	16. Arrange the following words as	than him. Find the present
letters/words/number pair from the	per order in the English	age of his father.
given alternatives.	dictionary :	(1) 35 years (2) 36 years
8. (1) Plateau (2) Plane	1. Important	(3) 25 years (4) 30 years
(3) Mountain (4) Hill	2. Impart	25. Sunita is the 11th from either
	3. Improvise	end of a row of girls. How
9. (1) 48-68 (2) 71-87	4. Improve	many girls are there in that row?
(3) 5 - 21 (4) 29 - 45	(1) 3, 4, 1, 2 (5) 2, 1, 3, 4	(1) 21 (2) 22
10. (1) EHIK (2) LNOQ (3) TWXZ (4) ADEG	(3) 1, 2, 3, 4 (4) 2, 1, 4, 3	(1) 21 (2) 22
	Directions (17-19) : In the following questions, a series is	26. A man said to a woman, "The
11. (1) Across : Along	given, with one term missing.	only son of your brother, is the
(2) Small : Large	Choose the correct alternative from	brother of my wife." How is
(3) Day : Night	the given ones that will complete the	that woman related to the wife
(4) Up : Down	series.	of that man?

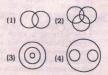
(1) Mother		tio 30 has ar berthdayn plantyur fi friends
(2) Grandmother	following questions, some equations.	are sitting in a row. 'M' is to
OV(3) Anut a (4) Sister OI : m	are solved on the basis of a certain system. On that basis, find out the	V_Othe left of 'O' and to the right of 'P'. 'S' is sitting to the right
27. Some capital letters are given	correct answer for the unsolved	of 'T', but to the left of 'P'. Who
below in the first line and	equation.	is sitting in the middle?
numbers are assigned to each		AND
Mof them in the second line. The numbers are the codes for	5 x 4 x 8 = 584	TA (1) P A O(2) S
the letters and vice-versa.	1 x 2 x 3 = ?	And the set of the set
the second second second second		40. One statement is given, followed by two conclusions I
MOEASJTZ	(1) 213 (2) 132 (M SI	and II. You have to consider the
3 5 7 6 2 9 4 0	(3) 123 (4) 231	statement to be true, even if it
Choose the correct number	34. If 526 = 9	seems to be at variance from
code for the given set of	and 834 = 9, then	commonly known facts. You
letters.	716 = ?	have to decide which of the
EAST	(1) 9 (2) 12	given conclusions, if any, follow
(1) 7624 (2) 7625	(3) 20 (4) 15	from the given statement.
(1) 7624 (2) 7623	35. One morning Meena started	Indicate your answer.
28. From the given alternatives	walking towards the Sun.	Statement :
select the word which can be	After walking a while she	Medals are awards.
formed using the letters given	turned towards her left and	Conclusions :
in the word.	again towards her left. After	I. All awards are not medals.
COMPANIONSHIP	walking a while, she turned left. In which direction is she	II. All medals received are
(1) OPINION (2) NATION	facing now?	called awards.
(3) OPEN (4) OPIUM		(1) Both conclusions I and II
29. From the given alternatives		follow
select the word which cannot	(3) North (4) East	(2) Neither conclusion I nor II
be formed using the letters of	36. Vijay starts walking straight	follows
the given word.	towards East. After walking 75	(3) Only conclusion I follows
PUNISHMENT	metres he turns to the left and walks 25 metres staight. Again	(4) Only conclusion II follows
(1) PUSH (2) NAME	he turns to the left and walks	41. Which of the conclusions can
(3) MINT (4) PEST	a distance of 40 metres	be drawn from the given
30. In a certain code 'CALANDER'	straight. Again he turns to the	statements?
is written as 'CLANAEDR'.	left and walks a distance of 25	Statements :
How is 'CIRCULAR' written in	metres. How far is he from the	and the second
that code?	starting point?	All the students in my class
(1) CRIUCLRA	(1) 50 metres	are intelligent.
(2) CRIARLCU	(2) 35 metres	Kaushik is not intelligent.
(3) ICCRLURA	(3) 140 metres	(1) Kaushik is not a student of my class.
(4) CRIUCALR	(4) 115 metres	(2) All other than Kaushik are
Directions (31-32) : In the	37. Select the correct combination	(2) An other than Kaushik are intelligent.
following questions, select the	of mathematical signs to	(3) Some students are not
missing number from the given	replace '*' signs and to	intelligent.
responses.	balance the given equation.	(4) Non-intelligent are not
31.63 7 9	24 * 34 * 2 * 5 * 12	students.
30 5 6	(1) = + - + (2) + + = x	42. A machine which cuts a ribbon
20 4 ?	$(3) + \div \times = (4) = \div + -$	into pieces of 10 metres takes
(1) 5 (2) 2	38. If '+' means 'minus', '-' means	6 seconds to make a single
(3) 8 (4) 3	'multiply', '+' means 'plus' and	cut. How long will it take to
32. 24 25 50	'x' means 'divide', then	completely cut into pieces a
24 20 10		ribbon 3 km long?
4 9 3	$10 \times 5 + 3 - 2 + 3 = ?$	(1) 1794 seconds
12 5 ?	(1) 21 (2) 36	(2) 1800 seconds
(1) 20 (2) 5	53	(3) 174 seconds
(3) 10 (4) 15	(3) 5 (4) $\frac{53}{3}$ and (3)	(4) 180 seconds







48. Identify the diagram that best represents the relationship among the classes given below: TEA, COFFEE, DRINK

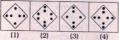


49. A piece of paper is folded and cut/punched as shown below in the question figures. From the given answer figures, indicate how it will appear when opened.

Question Figures :



Answer Figures :

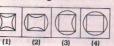


50. From the given answer figures, select the one in which the question figure is hidden/ embedded.

Question Figure :



Answer Figures :



ENGLISH LANGUAGE

Directions (51 - 56) : In the following questions, some parts of the sentences have errors and some have none. Find out which part of a sentence has an error. The number of that part is your answer. If a sentence is free from error, then your answer is (4), i.e. No Error.

- 51. She regards (1)/ negotiating prices with customers (2) / as her special expertise. (3)/ No error (4)
- 52. The police is investigating (1)/ for the recent happening (2)/ in the area. (3)/ No error (4)
- 53. The redevelopment project is aimed (1)/ not just providing good houses to shanty dwellers, (2)/but also developing infrastructure around the major Mumbai localities. (3)/ No error (4)
- 54. Unless he apologizes (1)/ he should not be (2)/ allowed to stay with us. (3)/ No error (4)
- 55. I met the gentleman (1)/ today morning on my way (2)/ to the market. (3) / No error (4) Directions (56-60) : In the fol-

lowing questions, sentences are given with blanks to be filled in with an appropriate word(s). Four alternatives are suggested for each question. Choose the correct alternative out of the four as your answer.

- 56. Internet cafe owners fear that a police crackdown may cause
 - damage to their business.
 - (1) irreparable
 - (2) eternal
 - (3) untold (4) reparable
- 57. We heard that the Richards their house recently.
 - (1) will shift (2) are shifting
 - (3) had shifted
 - (4) have shifted
- 58. The more he remonstrated the referee the worse the situation became.
 - (1) with (2) for
 - (3) at (4) to
- 59. Our teacher encouraged setting the poem to music. (1) he (2) he's
 - (3) his (4) him

60. He would not have been suc-	(1) heated at www.educa
cessful in the project but	(2) speaking sharply
my help.	(3) speaking kindly
(1) for (2) off	(4) speaking cheerfully
(3) of (4) with	69. After getting a severe scolding
Directions (61 - 62) : In the	from his mother, Raghu got
following questions, out of the four	down to business.
alternatives, choose the one which	(1) began to work seriously
best expresses the meaning of the	(2) joined his father's business
given word as your answer.	(3) started a business
61. Admonition	(4) became businesslike
(1) Admission (2) Hindrance	Directions (70 - 72) : In the
(3) Reason (4) Warning	following questions, out of the four
62. Thrifty	alternatives choose the one which
(1) Greedy (2) Extravagant	can be substituted for the given
(3) Economical	words/sentence.
(4) Compassionate	70. An assembly of worshippers
Directions (63-64) : In the fol-	(1) Configuration
lowing questions, choose the word	(2) Confrontation
opposite in meaning to the given	(3) Congregation
word as your answer.	(4) Conflagration
63. Dynamic	71. A person who lives by himself
(1) Static (2) Stupid	(1) Extrovert (2) Prophet
(3) Strange (4) Stout	(3) Monk (4) Recluse
64. Stability	72. A medicine to nullify the effect of poison
(1) Opposition	(1) Antidote (2) Anticlimax
(2) Carelessness	(3) Antibody (4) Antigen
(3) Disparity	Directions (73–74) : In the fol-
(4) Inconsistency	lowing questions, a part of the sen-
Directions (65 - 66) : In the	tence is printed in bold. Below are
following questions, there are four	given alternatives to the bold part at
different words out of which only one	(1), (2), (3) which may improve the
word is correctly spelt. Find the cor-	sentence. Choose the correct alter-
rectly spelt word as your answer. 65. (1) Intermitantly	native. In case no improvement is
(2) Intermittantly	needed, your answer is (4).
(3) Intermittently	73. Complete the formalities of
(4) Intarmitently	registration of the workshop before you enter the hall.
66. (1) Coleegue (2) Coligue	(1) formalities to register for
(3) Coleague (4) Colleague	(2) formalities to registering for
Directions (67-69) : In the fol-	(3) formalities of registration
lowing questions, four alternatives are given for the Idiom/Phrase print-	(4) No improvement
ed in bold in the sentence. Choose	74. If a man remains as careful as
the alternative which best expresses	he is in the beginning, there
the meaning of the Idiom/Phrase as	will be no failure.
your answer.	(1) he was in the beginning
67. The young servant goes about	(2) he in the beginning
with the old master.	(3) he at the beginning
(1) tries to know more about	(4) No improvement
(2) adjusts well	Directions (75-79) : In the fol-

(3) moves around

68. The mother was right in giv-

ing a piece of her mind to the

(4) goes around

daughter.

ns (75-79) : In the following questions, a sentence has been given in Active/Passive Voice. Out of the four alternatives suggested, select the one which best expresses the same sentence in Passive /Active Voice.

- educations have batch of eggs was collected by the farmer's wife.
 - (1) The farmer's wife had collected a fresh batch of eggs.
 - (2) The farmer's wife will be collecting a fresh batch of eggs.
 - (3) The farmer's wife was collecting a fresh batch of eggs.
 - (4) The farmer's wife collected a fresh batch of eggs.
 - 76. I shall have written the letter.
 - (1) The letter is being written by me.
 - (2) The letter will have been written by me.
 - (3) The letter will be written by me.
 - (4) The letter has been written by me.
 - 77. Then her face was bowed.
 - (1) Then she bowed her face.
 - (2) Then her face has been bowed.
 - (3) Then she was being bowed her face.
 - (4) Her face was bowed by then.
 - 78. The walls had not been decorated by us.

- (1) We have not decorated the walls.
- (2) We had not decorated the walls
- (3) We have not been decorating the walls.
- (4) We had not been decorating the walls.
- 79. We must endure what we cannot cure.
 - (1) What cannot cured must endured.
 - (2) What could be cure must be endured.
 - (3) What we cure must be endured.
 - (4) What cannot be cured must be endured.

Directions (80-84) : In the following questions, a sentence has been given in Direct/Indirect. Out of the four alternatives suggested, select the one which best expresses the same sentence in Indirect/Direct.

- 80. Suresh asked Prasad whether he had watched the officket match on television the previous night 200 at 2011.101
- (1) Suresh said to Prasad, "Did you watched the cricket match on television last night?"
 - (2) Suresh asked Prasad, "Did you watch the cricket match on television previous night?"
 - (3) Suresh asked Prasad, "Have you watched the cricket match on television last night?"
 - (4) Suresh said to Prasad, "Did you watch the cricket match on television last night?"
- 81. Father said to me, "You are idling away your time."
 - (1) Father told me that you were idling away your time.
 - (2) Father told me that I was idling away my time.
 - (3) Father told me that I am idling away my time.
 - (4) Father told me that you are idling away your time.
- 82. The captain said to his men, "Fall into line."
 - (1) The captain said to his men that they can fall into line.
 - (2) The captain commanded his men to fall into line.
 - (3) The captain warned his men to fall into line.
 - (4) The captain told his men that they should fall into line.
- 83. The priest said, "May God pardon this sinner !"
 - (1) The priest prayed that God would pardon this sinner.
 - (2) The priest prayed that God might pardon that sinner.
 - (3) The priest prayed if God will pardon that sinner.
 - (4) The priest said that God might pardon the sinner.
- 84. Ashmita advised me to go and see a doctor.
 - (1) "Shouldn't you go, and see a doctor ?" asked Ashmita.

2016 (2) "You should go and see a a lo set doctor," said Ashmita. Jood (3) Ashmita asked me. "Will by you go and see a doctor ?"

Dist (4) Ashmita told me, "Go and

Directions (85-90): In the following questions, the 1st and the last sentences of the passage/parts of the sentence are numbered 1 and 6. The rest of the passage/sentence is split into four parts and named P. Q. R and S. These four parts are not given in their proper order. Read the passage/sentence and find out which of the four combinations is correct. Then find the correct answer.

- 85.1. The first illness I read about was cholera.
 - P. I sat for a while, too frightened to move.
 - Q. I came to malaria.
 - R. As I read the list of symptoms, it seemed to me that perhaps I had cholera myself.
 - S. Then, in a kind of dream, I started to turn the pages of the book again.
 - Yes, there was no doubt about it — I had malaria too.
 - (1) RPSQ (2) PQSR
 - (3) SPQR (4) QSPR
- Lata was caught in a traffic jam.
 - P. Would she really have to miss the interview?
 - Q. But the vehicles on either side looked as though they would be there forever.
 - R. The reason was that she was due to appear for an interview in less than halfan-hour.
 - S. She was fretting : she could not afford to be late.
 - Or, worse would she arrive late and create a bad first impression ?
 - (1) RSQP (2) RSPQ
 - (3) SRQP (4) SRPQ
- 87.1. When you are debating whether to
 - P. but also helps you stay

- S. Lake your evening walk or skip it
 R. not only keeps your weight in check
 S. remember that taking a long a valk
 6. calm and relaxed.
 (1) RPQS (2) QSRP
- (3) SRPQ (4) QRSP
- 88. 1. The enzymes in washing powder
 - P. making them able to survive
 - Q. come from bacteria
 - R. to live in hot springs
 - S. that have evolved
 - 6. the rigours of the hot cycle.
 - (1) PQSR (2) QSRP
 - (3) SQRP (4) QSPR
 - **89.** 1. The lion used to be very widely distributed in Africa and Asia.
 - P. There are special forest zones set aside for wild-life in various countries.
 - Indiscriminate killing has caused the number to fall.
 - R. Today they are a relatively rare species.
 - S. If the species survives at all, it will be only in national parks.
 - 6. No hunting is permitted in such reserved areas.
 - (1) RQSP (2) SRPQ
 - (3) RSPQ (4) QSPR
- **90.** 1. After the tornado had hit the coastal areas,
 - P. my house was gone,
 - Q. I became a pauper overnight
 - R. my fields were completely destroyed,
 - S. my livestock was lost and
 - though my neighbour's house remained untouched.

(1) QRPS	(2) PRSQ
(3) RPQS	(4) SQPR

Directions (91-95): In the following questions, in the following passage some of the words have been left out. Read the passage carefully and choose the correct answer to each question out of the four alternatives and fill in the blanks. ^{10 M} When T go into a stranger's library I [91] round the bookshelves. This is to know the type of person he is and I feel that I know the [92] to his mind. A house without books is a [93] house, no matter how rich the carpets are.

These only tell you whether he [94] a lot of money, but the books tell you whether he has a mind as well. It is not a (95) of money that we do not buy books.

91. (1) look	(2) wander
(3) wonder	(4) run
92. (1) key	(2) solution
(3) secret	(4) mystery
93. (1) unlucky	(2) bad
(3) character	rless
(4) bleak	
94. (1) have	(2) has had
(3) had	(4) has
95. (1) issue	(2) cause
(3) reason	(4) question

Directions (96-100): In the following questions, you have a brief passage with 5 questions following the passage. Read the passage carefully and choose the best answer to each question out of the four alternatives.

As the rulers of the planet, humans like to think that it is the large creatures who will emerge victorious from the struggle for survival. However, nature teaches us the opposite : it is often the smallest species which are the toughest and most adaptable. A perfect example is the hummingbird, which is found in the Americas. One species of hummingbird known as the bee hummingbird ranks as the world's smallest and lightest bird and it is barely visible when it is in flight.

Hummingbirds are the only birds that can fly backwards. They feed mainly on the nectar of flowers, a liquid that is rich in energy. Nectar is an ideal food source, for hummingbirds need an incredible amount of energy to sustain their body metabolism. A hummingbird's wings flap at a rate of about 80 times per second and its tiny heart beats more than 1000 times per minute. This is why they must consume relatively large quantities of food. In the course of a day, a hummingbird consumes about half its body weight in nectar.

- **96.** Which of the following statements about the bee hummingbird is true ?
 - (1) It could fly high beyond the clouds.
 - (2) It cannot be seen when it is in flight.
 - (3) It is obviously visible when it flies.
 - (4) It escapes our sight when it is in flight.
- 97. Hummingbirds need a lot of energy in order to
 - (1) sustain a steady rhythm of heart-beat
 - (2) win in the struggle for survival
 - (3) maintain their body metabolism
 - (4) flap their wings and fly backwards
- **98.** The hummingbirds are exclusive in the sense that
 - they consume half their body weight every day
 - (2) they can fly backwards
 - (3) they subsist only on nectar
 - (4) their pulse rate is more than 1000 per minute
- 99. The word 'incredible' in the passage means
 - (1) unbelievable
 - (2) phenomenal
 - (3) tremendous
- (4) inexhaustible
- 100. Nature has made man realize the fact that
 - humans who rule the planet are the most powerful beings on Earth
 - (2) the largest and the smallest species are equally tough and strong
 - (3) the large creatures emerge victorious from the struggle for survival
 - (4) the smallest creatures are the toughest and most adaptable

QUANTITATIVE	OFUM APTITUDE		
101. If 120 is 20% of a number, then 120% of that number will be			
A REAL PROPERTY AND A REAL PROPERTY.	(1) 360 (2) 720 (3) 20 (4) 120		
102. In a division sur			
is 3 times the quotient and 6 times the remainder. If the re- mainder is 2, then the dividend			
is			
a second second second second second second second	2) 48		
(3) 36 (4	1) 28		
103. $\frac{1}{7} + \left(999\frac{692}{693}\right) \times 3$	99 is equal		
to			
and the second	2) 99000		
(3) 99800 (4	99900		
104. Let $\sqrt[3]{a} = \sqrt[3]{26} + \sqrt[3]{76}$ Then	7 + 363 .		
(1) a < 729 but a	> 216		
(2) a < 216			
(3) a > 729 (4	a = 729		
105. The number of pri 6 ³³³ × 7 ²²² × 8 ¹¹¹	me factors in		
(1) 1221 (2			
(3) 1111 (4			
106. The greatest amo	ng 1.5, 1.05.		
1.05, 1.5 is			
(1) 1.05 (2	1.05		
(3) 1.5 (4)	1.5		
107. $\begin{vmatrix} \frac{4\frac{1}{7} - 2\frac{1}{4}}{3\frac{1}{2} + 1\frac{1}{7}} + \frac{1}{2} \end{vmatrix}$	2		
$3\frac{1}{2}+1\frac{1}{7}$ 2+-	1 2		
2	$2 + \frac{1}{-1}$		
a november of	55		
is equal to	all since the		
(1) 1 (2) 4			
(3) 3 (4) 2			
108. If $x: y = 3: 4$ and $y: z = 3: 4$,			
	then $\frac{x+y+z}{3z}$ is equal to		

13

(2) 2

(1) 27

he time lin hours)	T.atuoglant	
(erood 073 mi) od boll(3) 73 84 state	or (4) 37 48	
109. The value of	OL(I)	
$\sqrt{72} \times \sqrt{363}$	× √175 8(E)	
$\frac{\sqrt{72} \times \sqrt{363}}{\sqrt{32} \times \sqrt{147}}$		
(1) $\frac{55}{42}$	(2) <u>45</u> 56	
(1) $\frac{1}{42}$	(2) 56	
(3) $\frac{45}{28}$	(4) $\frac{55}{28}$	
	and the second sec	
	oper are in the ra- 00 gm of an alloy.	
How much of	f copper (in grams)	
should be ad ratio 5 : 4 ?	dded to make the	
(1) 50	(2) 66	
(3) 72	(4) 200	
111. The average	age of A and B is	
20 years. If A	A is to be replaced erage would be 19	
years. The ave	verage age of C and	
	s. The ages of A, B	
and C in ord	ler (in years) are	
(1) 18, 22, 20	0 (2) 18, 20, 22	
(3) 22, 18, 20	0 (4) 22, 20, 18	
	of 10% in the price	
of a commod	lity enables a per- 25 kg more for Rs.	
	ginal price of the	
commodity p	per kg was	
(1)₹2	(2)₹1	
(3)₹2.50	(4) ₹ 1.50	
water and th	quid contains 20% he second type of	
liquid contai	ns 35% of water. A	
glass is filled	d with 10 parts of	
first liquid and 4 parts of second liquid. The water in the new		
mixture in th	he glass is	
(1) 37%	(2) 46%	
(3) $12\frac{1}{7}\%$	(4) $24\frac{2}{7}\%$	
114.At the be	eginning of a	
partnership	business, the	
	3	

capital of B was $\frac{3}{2}$ times that of A. After 8 months B withdrew $\frac{1}{2}$ of his capital and after 10 months A withdrew

	hosted at www.educat	ionobsenver.com/forum
		ionobserver.com/forumaa.asr
1	$\frac{1}{4}$ th of his capital. At the end	at A (3) 33 off OA (4) 15 diw
	of the year, if the profit	121. If $x + y + z = 13$ and $x^2 + y^2 + z^2$
	incurred is Rs. 53,000, find the	= 69, then $xy + z(x + y)$ is equal
	amount received by A.	to an an an an an an
1	(1) ₹ 30,800 (2) ₹ 32,000	(1) 70 (2) 40
	(3) ₹ 30,000 (4) ₹ 23,000	(3) 50 (4) 60
	115. If x, y, z are three sums of	122. Two trains, of same length, are
	money such that y is the sim-	running in parallel tracks in
	ple interest on x and z is the	the same direction with speed
	simple interset on y for the	60 km/hour and 90 km/hour
	same time and at the same rate	respectively. The latter
É.	of interest, then we have	completely crosses the former
	(1) $z^2 = xy$ (2) $xyz = 1$ (3) $x^2 = yz$ (4) $y^2 = zx$	in 30 seconds. The length of
)	(3) $x^2 = yz$ (4) $y^2 = zx$	each train (in metres) is
e	116. Mohan sold his watch at 10%	(1) 125 (2) 150
	loss. If he had sold it for Rs.	(3) 100 (4) 115
	45 more, he would have made	123. A and B can together finish a
	5% profit. The selling price (in	work in 30 days. They worked
-	Rs.) of the watch was	together for 20 days and then
s	(1) 300 (2) 900	B left. After another 20 days,
9	(3) 110 (4) 270	A finished the remaining work. The number of days in which
d	117. A vendor loses the selling price	B alone can finish the work is
3	of 4 oranges on sellintg 36 or-	(1) 50 (2) 48
	anges. His loss per cent is	(3) 54 (4) 60
		the state of the s
	(1) $12\frac{1}{2}\%$ (2) 9%	124. PQ is a chord of length 8 cm, of a circle with cantre O and
	where and the state of the state	of radius 5 cm. The tangents
e	(3) 10% (4) $11\frac{1}{2}\%$	at P and Q intersect at a point
	-	T. The length of TP is
e.	118. Successive discounts of 30%	- 201 Jane of the moler met of the
C	and 20% is equivalent to a	(1) $\frac{20}{3}$ cm (2) $\frac{21}{4}$ cm
	single discount of	
	(1) 50% (2) 40%	(3) $\frac{10}{3}$ cm (4) $\frac{15}{4}$ cm
	(3) 44% (4) 10%	$(3) \frac{1}{3} \text{ cm}$ $(4) \frac{1}{4} \text{ cm}$
6 f	xy xz -h	125. The area of the triangle formed
A	119. If $\frac{xy}{x+y} = a$, $\frac{xz}{x+z} = b$ and	by the graphs of $3x + 4y = 12$,
f	117	x-axis and y-axis (in sq. units)
d	$\frac{yz}{y+z} = c$, where a, b, c are all	is
v		(1) 4 (2) 12
	non-zero numbers, then x	(3) 6 (4) 8
	equals to	126. If $x = \sqrt[3]{2 + \sqrt{3}}$, then the val-
	(1) $\frac{2abc}{ab+bc-ac}$	$x = \sqrt{2} + \sqrt{3}$, then the val-
-	ab + bc - ac	ue of $x^3 + \frac{1}{x^3}$ is
4	2abc	x ³ is
2	(2) $\frac{2abc}{ab+ac-bc}$	(1) 8 (2) 9
	all the second s	(3) 2 (4) 4
t	$(3) \frac{2abc}{ac+bc-ab}$	127. The side QR of an equilateral
	ac + bc - ab	triangle PQR is produced to
3	2 abo	the point S in such a way that
1	$(4) \frac{2abc}{ab+bc+ac}$	QR = RS and P is joined to S.
-	ab + bc + ac 120. If $6x = 5u = 13$, $7x + 3u = 33$	Then the measure of ∠PSR is
281		(1) 202 (0) 152

120. If 6x - 5y = 13, 7x + 2y = 23

then 11x + 18u =

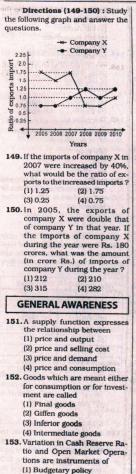
(1) 30°

 $(3) 60^{\circ}$

(2) 15°

(4) 45°

	hosted at much order	ationoborniona	and for a long have a
128. ABC is an isosceles triangle			tank can be filled
with AB = AC. The side BA is produced to D such that AB =		by pipe C alo	
AD. If $\angle ABC = 30^\circ$, then $\angle BCD$	(1) 1550 (2) 1660	(1) 10	10 (2) 12 007.301
lauri de la		(3) 8	(4) 9
(1) 45° (2) 90°	136. The greatest value of $\sin^4\theta + \cos^4\theta$ is	144. The radii of	CONTRACTOR OF CONTRACTOR
(3) 30° ⁽²⁾ (4) 60°	000.58 5153 008005.718		m. The radius of a
129. ABCD is a trapezium in which			area is the sum
AB DC and AB = 2 CD. The	$(3)\frac{1}{2}$ (4) 1		of these two cir-
diagonals AC and BD meet at	ame 2. 2 haft don't hatom	cles is	
O. The ratio of areas of trian-	137. If $3\sin\theta + 5\cos\theta = 5$ then	(1) 36 cm	(2) 17 cm
gles AOB and COD is	$5\sin\theta - 3\cos\theta$ is equal to	(3) 34 cm	(4) 26 cm
(1) 1:2 (2) 1: $\sqrt{2}$	$(1) \pm 3$ $(2) \pm 5$	145. The value of	
	(3) 1 (4) ± 2		
(3) 4 : 1 (4) 1 : 4	138. If $\sin\theta + \sin^2\theta = 1$ then the val-	$(x^{b+c})^{b-c}(x^{c})$	$(+a)^{c-a} (x^{a+b})^{a-b}$.
130. The altitude drawn to the base		1 1 1 1) (~) .
of an isosceles triangle is 8 cm and its perimeter is 64 cm. The		$(x \neq 0)$ is	
area (in cm^2) of the triangle is		(1) 1	(2) 2
(1) 240 (2) 180	139. From two points on the ground	(3) -1	(4) 0
(3) 360 (4) 120	and lying on a straight line	146. LCM of two	numbers is 2079
131. Three solid iron cubes of edges	through the foot of a pillar, the	and their HC	CF is 27. If one of
4 cm, 5 cm and 6 cm are melt-	two angles of elevation of the	the numbers	is 189, the other
ed together to make a new	top of the pillar are	number is	
cube. 62 cm ³ of the melted		(1) 297	(2) 584
material is lost due to improper		(3) 189	(4) 216
handling. The area (in cm ²) of	pillar are 9 metres and 16	Directions (147-	-148) : The table
the whole surface of the newly formed cube is	metres and the two points lie	showe the percent	
ionned cube is		a total and the	
(1) 904 (0) 949	on the same side of the pillar.	ulation of a city	in different age
(1) 294 (2) 343 (3) 125 (4) 216	then the height of the pillar is	groups. Study the	in different age table and answer
(3) 125 (4) 216		groups. Study the the questions.	in different age table and answer
(3) 125 (4) 216 132. If the ratio of volumes of two	then the height of the pillar is (1) 5 m (2) 10 m (3) 7 m (4) 12 m	groups. Study the the questions.	table and answer
 (3) 125 (4) 216 132. If the ratio of volumes of two cones is 2 : 3 and the ratio of the radii of their bases is 1 : 2. 	then the height of the pillar is (1) 5 m (2) 10 m (3) 7 m (4) 12 m 140. The sum of interior angles of a	groups. Study the the questions.	Percent
 (3) 125 (4) 216 132. If the ratio of volumes of two cones is 2 : 3 and the ratio of the ratio of their bases is 1 : 2, then the ratio of their heights 	then the height of the pillar is (1) 5 m (2) 10 m (3) 7 m (4) 12 m 140. The sum of interior angles of a regular polygon is 1440°. The	groups. Study the the questions. Age group Up to 15	Percent 20.00
 (3) 125 (4) 216 132. If the ratio of volumes of two cones is 2 : 3 and the ratio of the radii of their bases is 1 : 2, then the ratio of their heights will be 	then the height of the pillar is (1) 5 m (2) 10 m (3) 7 m (4) 12 m 140. The sum of interior angles of a regular polygon is 1440°. The number of sides of the polygon	groups. Study the the questions. Age group Up to 15 16 - 25	Percent 20.00 18.25
 (3) 125 (4) 216 132. If the ratio of volumes of two cones is 2 : 3 and the ratio of the radii of their bases is 1 : 2, then the ratio of their heights will be (1) 3 : 4 (2) 4 : 3 	then the height of the pillar is (1) 5 m (2) 10 m (3) 7 m (4) 12 m 140. The sum of interior angles of a regular polygon is 1440°. The number of sides of the polygon is	groups. Study the the questions. Age group Up to 15 16 - 25 26 - 35	Percent 20.00 18.25 16.75
 (3) 125 (4) 216 132. If the ratio of volumes of two cones is 2 : 3 and the ratio of the radii of their bases is 1 : 2, then the ratio of their heights will be (1) 3 : 4 (2) 4 : 3 (3) 3 : 8 (4) 8 : 3 	then the height of the pillar is (1) 5 m (2) 10 m (3) 7 m (4) 12 m 140. The sum of interior angles of a regular polygon is 1440°. The number of sides of the polygon is (1) 10 (2) 12	groups. Study the the questions. Age group Up to 15 16 - 25	Percent 20.00 18.25
 (3) 125 (4) 216 132. If the ratio of volumes of two cones is 2 : 3 and the ratio of the radii of their bases is 1 : 2, then the ratio of their heights will be (1) 3 : 4 (2) 4 : 3 (3) 3 : 8 (4) 8 : 3 133. A right pyramid stands on a 	then the height of the pillar is (1) 5 m (2) 10 m (3) 7 m (4) 12 m 140. The sum of interior angles of a regular polygon is 1440°. The number of sides of the polygon is (1) 10 (2) 12 (3) 6 (4) 8	groups. Study the the questions. Age group Up to 15 16 - 25 26 - 35	Percent 20.00 18.25 16.75
 (3) 125 (4) 216 132. If the ratio of volumes of two cones is 2 : 3 and the ratio of their bases is 1 : 2, then the ratio of their bases is 1 : 2, then the ratio of their heights will be (1) 3 : 4 (2) 4 : 3 (3) 3 : 8 (4) 8 : 3 133. A right pyramid stands on a base 16 cm source and its 	then the height of the pillar is (1) 5 m (2) 10 m (3) 7 m (4) 12 m 140. The sum of interior angles of a regular polygon is 1440°. The number of sides of the polygon is (1) 10 (2) 12 (3) 6 (4) 8 141. The base of a right prism is a	groups. Study the the questions. Age group Up to 15 16 - 25 26 - 35 36 - 45	Percent 20.00 18.25 16.75 16.25 15.00
 (3) 125 (4) 216 132. If the ratio of volumes of two cones is 2 : 3 and the ratio of the ratio if their bases is 1 : 2, then the ratio of their heights will be (1) 3 : 4 (2) 4 : 3 (3) 3 : 8 (4) 8 : 3 133. A right pyramid stands on a base 16 cm square and its height is 15 cm. The area (in 	then the height of the pillar is (1) 5 m (2) 10 m (3) 7 m (4) 12 m 140. The sum of interior angles of a regular polygon is 1440°. The number of sides of the polygon is (1) 10 (2) 12 (3) 6 (4) 8 141. The base of a right prism is a right-angled triangle whose sides are 5 cm, 12 cm and	groups. Study the the questions. Age group Up to 15 16 - 25 26 - 35 36 - 45 46 - 55 56 - 65	Percent 20.00 18:25 16:75 16:25 15:00 12:50
 (3) 125 (4) 216 132. If the ratio of volumes of two cones is 2 : 3 and the ratio of the radii of their bases is 1 : 2, then the ratio of their bags will be (1) 3 : 4 (2) 4 : 3 (3) 3 : 8 (4) 8 : 3 133. A right pyramid stands on a base 16 cm square and its height is 15 cm. The area (in cm³) of its slant surface is 	then the height of the pillar is (1) 5 m (2) 10 m (3) 7 m (4) 12 m 140. The sum of interior angles of a regular polygon is 1440°. The number of sides of the polygon is (1) 10 (2) 12 (3) 6 (4) 8 141. The base of a right prism is a right-angled triangle whose sides are 5 cm, 12 cm and 13 cm. If the area of the total	groups. Study the the questions. Age group Up to 15 16 - 25 26 - 35 36 - 45 46 - 55 56 - 65 66 and above	Percent 20.00 18.25 16.75 16.25 15.00 12.50 1.25
 (3) 125 (4) 216 132. If the ratio of volumes of two cones is 2 : 3 and the ratio of the radii of their bases is 1 : 2, then the ratio of their bases is 1 : 2, then the ratio of their beights will be (1) 3 : 4 (2) 4 : 3 (3) 3 : 8 (4) 8 : 3 133. A right pyramid stands on a base 16 cm square and its height is 15 cm. The area (in cm²) of its slant surface is (1) 514 (2) 544 	 then the height of the pillar is (1) 5 m (2) 10 m (3) 7 m (4) 12 m 140. The sum of interior angles of a regular polygon is 1440°. The number of sides of the polygon is (1) 10 (2) 12 (3) 6 (4) 8 141. The base of a right prism is a right-angled triangle whose sides are 5 cm, 12 cm and 13 cm. If the area of the total surface of the prism is 360 	groups. Study the the questions. Age group Up to 15 16 - 25 26 - 35 36 - 45 46 - 55 56 - 65 66 and above 147. If there are 2:	Percent 20.00 18.25 16.75 16.25 15.00 12.50 1.25 2 million people
 (3) 125 (4) 216 132. If the ratio of volumes of two cones is 2 : 3 and the ratio of their bases is 1 : 2, then the ratio of their bases is 1 : 2, then the ratio of their heights will be (1) 3 : 4 (2) 4 : 3 (3) 3 : 8 (4) 8 : 3 133. A right pyramid stands on a base 16 cm square and its height is 15 cm. The area (in cm²) of its slant surface is (1) 514 (2) 544 (3) 334 (4) 444 	 then the height of the pillar is (1) 5 m (2) 10 m (3) 7 m (4) 12 m 140. The sum of interior angles of a regular polygon is 1440°. The number of sides of the polygon is (1) 10 (2) 12 (3) 6 (4) 8 141. The base of a right prism is a right-angled triangle whose sides are 5 cm, 12 cm and 13 cm. If the area of the total surface of the prism is 360 cm², then its height (in cm) is 	groups. Study the the questions. Age group Up to 15 16 - 25 26 - 35 36 - 45 46 - 55 56 - 65 66 and above 147. If there are 22 below 36 years	Percent 20.00 18.25 16.75 16.25 15.00 12.50 1.25 2 million people s. then the num-
 (3) 125 (4) 216 132. If the ratio of volumes of two cones is 2 : 3 and the ratio of the radii of their bases is 1 : 2, then the ratio of their bases is 1 : 2, then the ratio of their heights will be (1) 3 : 4 (2) 4 : 3 (3) 3 : 8 (4) 8 : 3 133. A right pyramid stands on a base 16 cm square and its height is 15 cm. The area (in cm²) of its slant surface is (1) 514 (2) 544 (3) 3:44. (4) 444 134. If a chord of a circle is equal 	 then the height of the pillar is (1) 5 m (2) 10 m (3) 7 m (4) 12 m 140. The sum of interior angles of a regular polygon is 1440°. The number of sides of the polygon is (1) 10 (2) 12 (3) 6 (4) 8 141. The base of a right prism is a right-angled triangle whose sides are 5 cm, 12 cm and 13 cm. If the area of the total surface of the prism is 360 cm², then its height (in cm) is (1) 10 (2) 12 	groups. Study the the questions. Age group Up to 15 16-25 26-35 36-45 46-55 56-65 66 and above 147. If there are 22 below 36 years ber of people	Percent 20.00 18.25 16.75 16.25 15.00 12.50 1.25 2 million people a, then the num- a, then the num-
 (3) 125 (4) 216 132. If the ratio of volumes of two cones is 2 : 3 and the ratio of the radii of their bases is 1 : 2, then the ratio of their heights will be (1) 3 : 4 (2) 4 : 3 (3) 3 : 8 (4) 8 : 3 133. A right pyramid stands on a base 16 cm square and its height is 15 cm. The area (in cm²) of its slant surface is (1) 514 (2) 544 (3) 344 (4) 444 134. If a chord of a circle is equal to the radius of the circle, then 	 then the height of the pillar is (1) 5 m (2) 10 m (3) 7 m (4) 12 m 140. The sum of interior angles of a regular polygon is 1440°. The number of sides of the polygon is (1) 10 (2) 12 (3) 6 (4) 8 141. The base of a right prism is a right-angled triangle whose sides are 5 cm, 12 cm and 13 cm. If the area of the total surface of the prism is 360 cm², then its height (in cm) is (1) 10 (2) 12 (3) 9 (4) 11 	groups. Study the the questions. Age group Up to 15 16-25 26-35 36-45 46-55 56-65 66 and above 147. If there are 2: below 36 years ber of people the age group	Percent 20.00 18.25 16.75 16.25 15.00 12.50 1.25 2 million people s, then the num- (in millions) in 56 - 65 is
 (3) 125 (4) 216 132. If the ratio of volumes of two cones is 2 : 3 and the ratio of the radii of their bases is 1 : 2, then the ratio of their heights will be (1) 3 : 4 (2) 4 : 3 (3) 3 : 8 (4) 8 : 3 133. A right pyramid stands on a base 16 cm square and its height is 15 cm. The area (in cm²) of its slant surface is (1) 514 (2) 544 (3) 344 (4) 444 134. If a chord of a circle is equal to the radius of the circle, then the angle subtended by the 	then the height of the pillar is (1) 5 m (2) 10 m (3) 7 m (4) 12 m 140. The sum of interior angles of a regular polygon is 1440°. The number of sides of the polygon is (1) 10 (2) 12 (3) 6 (4) 8 141. The base of a right prism is a right-angled triangle whose sides are 5 cm, 12 cm and 13 cm. If the area of the total surface of the prism is 360 cm ² , then its height (in cm) is (1) 10 (2) 12 (3) 9 (4) 11 142. The product cosl ² cos3 ² cos3 ²	groups. Study the the questions. Age group Up to 15 16 - 25 26 - 35 36 - 45 46 - 55 56 - 65 66 and above 147. If there are 2: below 36 years ber of people the age group (1) 5	Percent 20.00 18.25 16.75 16.25 15.00 12.50 1.25 2 million people s. then the num- (in millions) in 56 - 65 is (2) 5.5
 (3) 125 (4) 216 132. If the ratio of volumes of two cones is 2 : 3 and the ratio of the radii of their bases is 1 : 2, then the ratio of their heights will be (1) 3 : 4 (2) 4 : 3 (3) 3 : 8 (4) 8 : 3 133. A right pyramid stands on a base 16 cm square and its height is 15 cm. The area (in cm²) of its slant surface is (1) 514 (2) 544 (3) 344 (4) 444 134. If a chord of a circle is equal to the radius of the circle, then 	 then the height of the pillar is (1) 5 m (2) 10 m (3) 7 m (4) 12 m 140. The sum of interior angles of a regular polygon is 1440°. The number of sides of the polygon is (1) 10 (2) 12 (3) 6 (4) 8 141. The base of a right prism is a right-angled triangle whose sides are 5 cm, 12 cm and 13 cm. If the area of the total surface of the prism is 360 cm², then its height (in cm) is (1) 10 (2) 12 (3) 9 (4) 11 	groups. Study the the questions. Age group Up to 15 16 - 25 26 - 35 36 - 45 46 - 55 56 - 65 66 and above 147. If there are 2: below 36 years ber of people the age group (1) 5 (3) 3	Percent 20.00 18.25 16.75 16.25 15.00 12.50 1.25 2 million people s. then the num-(in millions) in 56 - 65 is (2) 5.5 (4) 3.5
 (3) 125 (4) 216 132. If the ratio of volumes of two cones is 2 : 3 and the ratio of ther heights will be (1) 3 : 4 (2) 4 : 3 (3) 3 : 8 (4) 8 : 3 133. A right pyramid stands on a base 16 cm square and its height is 15 cm. The area (in cm²) of its slant surface is (1) 514 (2) 544 (3) 344 (4) 444 134. If a chord of a circle is equal to the radius of the circle, then the angle subtended by the chord at a point on the minor arc is (1) 150° (2) 60° 	then the height of the pillar is (1) 5 m (2) 10 m (3) 7 m (4) 12 m 140. The sum of interior angles of a regular polygon is 1440°. The number of sides of the polygon is (1) 10 (2) 12 (3) 6 (4) 8 141. The base of a right prism is a right-angled triangle whose sides are 5 cm, 12 cm and 13 cm. If the area of the total surface of the prism is 360 cm ² , then its height (in cm) is (1) 10 (2) 12 (3) 9 (4) 11 142. The product cos1° cos2° cos3° cos4° cos100° is equal to	groups. Study the the questions. Age group Up to 15 16-25 26-35 36-45 46-55 56-65 66 and above 147. If there are 2: below 36 years. ber of people the age group (1) 5 (3) 3 148. If the differen	Percent 20.00 18.25 16.75 16.25 15.00 12.50 1.25 2 million people s, then the num- (in millions) in 56 - 65 is (2) 5.5 (4) 3.5 cc between the
 (3) 125 (4) 216 132. If the ratio of volumes of two comes is 2 : 3 and the ratio of the radii of their bases is 1 : 2, then the ratio of their bases is 1 : 2, then the ratio of their bases is 1 : 2, then the ratio of their heights will be 3 3 : 4 (2) 4 : 3 3 3 : 4 (2) 4 : 3 133. A right pyramid stands on a base 16 cm square and its height is 15 cm. The area (in cm³) of its slant surface is 1) 514 (2) 544 3) 344 (4) 444 134. If a chord of a circle is equal to the radius of the circle, then the angle subtended by the chord at a point on the minor arc is 1) 150° (2) 60° 120° (4) 30° 	then the height of the pillar is (1) 5 m (2) 10 m (3) 7 m (4) 12 m 140. The sum of interior angles of a regular polygon is 1440°. The number of sides of the polygon is (1) 10 (2) 12 (3) 6 (4) 8 141. The base of a right prism is a right-angled triangle whose sides are 5 cm, 12 cm and 13 cm. If the area of the total surface of the prism is 360 cm ² , then its height (in cm) is (1) 10 (2) 12 (3) 9 (4) 11 142. The product cosl ² cos3 ² cos3 ²	groups. Study the the questions. Age group Up to 15 16 - 25 26 - 35 36 - 45 46 - 55 56 - 65 56 - 65 66 and above 147. If there are 2: below 36 years ber of people the age group (1) 5 (3) 3 148. If the differen number of pe	Percent 20:00 18:25 16:75 16:25 15:00 12:50 1:2:50 2 million people s. then the num- (in millions) in 56 - 65 is (2) 5.5 (4) 3.5 ce between the ople in the age
 (3) 125 (4) 216 132. If the ratio of volumes of two cones is 2 : 3 and the ratio of the radii of their bases is 1 : 2, then the ratio of their bases is 1 : 2, then the ratio of their bases is 1 : 2, then the ratio of their bases is 1 : 2, then the ratio of their bases is 1 : 2, then the ratio of their bases is 1 : 3, and the ratio of their bases is 1 : 3, and the ratio of their bases is 1 : 3, and the ratio of their bases is 1 : 3, and the ratio of their bases is 1 : 3, and the ratio of their bases is 1 : 3, and the ratio of the ratio of the rate is 1 : 3, and the ratio of the rate is 1 : 5 cm. The area (in cm²) of its slant surface is (1) 514 (2) 544 (3) 344 (4) 444 134. If a chord of a circle is equal to the radius of the circle, then the angle subtended by the chord at a point on the minor arc is (1) 150° (2) 60° (3) 120° (4) 30° 135. The length of each side of a 	then the height of the pillar is (1) 5 m (2) 10 m (3) 7 m (4) 12 m 140. The sum of interior angles of a regular polygon is 1440°. The number of sides of the polygon is (1) 10 (2) 12 (3) 6 (4) 8 141. The base of a right prism is a right-angled triangle whose sides are 5 cm, 12 cm and 13 cm. If the area of the total surface of the prism is 360 cm ² , then its height (in cm) is (1) 10 (2) 12 (3) 9 (4) 11 142. The product cos1° cos2° cos3° cos4° cos100° is equal to (1) -1 (2) $\frac{1}{4}$	groups. Study the the questions. Age group Up to 15 16-25 26-35 36-45 46-55 56-65 66 and above 147. If there are 22 below 36 years ber of people the age group (1) 5 (3) 3 148. If the differen number of peo	Percent 20.00 18.25 16.75 16.25 15.00 12.50 1.25 2 million people s. then the num-(in millions) in 56 - 65 is (2) 5.5 (4) 3.5 cce between the ople in the age ond 16 - 25 is
 (3) 125 (4) 216 132. If the ratio of volumes of two cones is 2 : 3 and the ratio of the radii of their bases is 1 : 2, then the ratio of their bags is 1 : 2, then the ratio of their bags is 1 : 2, then the ratio of their heights will be (1) 3 : 4 (2) 4 : 3 (3) 3 : 8 (4) 8 : 3 133. A right pyramid stands on a base 16 cm square and its height is 15 cm. The area (in cm²) of its slant surface is (1) 514 (2) 544 (3) 344 (4) 444 134. If a chord of a circle is equal to the radius of the circle, then the angle subtended by the chord at a point on the minor arc is (1) 150° (2) 60° (3) 120° (4) 30° 135. The length of each side of a rhombus is equal to the rath. 	then the height of the pillar is (1) 5 m (2) 10 m (3) 7 m (4) 12 m 140. The sum of interior angles of a regular polygon is 1440°. The number of sides of the polygon is (1) 10 (2) 12 (3) 6 (4) 8 141. The base of a right prism is a right-angled triangle whose sides are 5 cm, 12 cm and 13 cm. If the area of the total surface of the prism is 360 cm ² , then its height (in cm) is (1) 10 (2) 12 (3) 9 (4) 11 142. The product cos1° cos2° cos3° $cos4° \dots cos100°$ is equal to (1) -1 (2) $\frac{1}{4}$ (3) 1 (4) 0	groups. Study the the questions. Age group Up to 15 16-25 26-35 36-45 46-55 56-65 66 and above 147. If there are 2: below 36 years ber of people the age group (1) 5 (3) 3 148. If the differen number of pe groups 46-55 0.975 million,	Percent 20.00 18.25 16.75 16.25 15.00 12.50 1.25 2 million people s, then the num- (in millions) in 56 - 65 is (2) 5.5 (4) 3.5 cc between the ople in the age and 16 - 25 is
 (3) 125 (4) 216 132. If the ratio of volumes of two comes is 2 : 3 and the ratio of the radii of their bases is 1 : 2, then the ratio of their bases is 1 : 2, then the ratio of their bases is 1 : 2, then the ratio of their bases is 1 : 2, then the ratio of their bases is 1 : 2, then the ratio of their bases is 1 : 3, and the ratio of their bases is 1 : 3, and the ratio of their bases is 1 : 3, and the ratio of their bases is 1 : 3, and the ratio of their bases is 1 : 3, and the ratio of their bases is 1 : 3, and the ratio of the side of the side of a councel of the side of a square those of the side of the side of a square those of the side of th	then the height of the pillar is (1) 5 m (2) 10 m (3) 7 m (4) 12 m 140. The sum of interior angles of a regular polygon is 1440°. The number of sides of the polygon is (1) 10 (2) 12 (3) 6 (4) 8 141. The base of a right prism is a right-angled triangle whose sides are 5 cm, 12 cm and 13 cm. If the area of the total surface of the prism is 360 cm ² , then its height (in cm) is (1) 10 (2) 12 (3) 9 (4) 11 142. The product cosl ² cos3° cos4° cos100° is equal to (1) -1 (2) $\frac{1}{4}$ (3) 1 (4) 0 143. Three pipes A, B and C can fill	groups. Study the the questions. Age group Up to 15 16 - 25 26 - 35 36 - 45 46 - 55 56 - 65 66 and above 147. If there are 2: below 36 years ber of people the age group (1) 5 (3) 3 148. If the differen number of pe groups 46 - 55 0.975 million, population (in	Percent 20.00 18.25 16.75 16.25 15.00 12.50 1.25 2 million people s. then the num-(in millions) in 56 - 65 is (2) 5.5 (4) 3.5 cce between the ople in the age ond 16 - 25 is
 (3) 125 (4) 216 132. If the ratio of volumes of two cones is 2 : 3 and the ratio of the radii of their bases is 1 : 2, then the ratio of their heights will be (1) 3 : 4 (2) 4 : 3 (3) 3 : 8 (4) 8 : 3 133. A right pyramid stands on a base 16 cm square and its height is 15 cm. The area (in cm²) of its slant surface is (1) 514 (2) 544 (3) 344 (4) 444 134. If a chord of a circle is equal to the radius of the circle, then the angle subtended by the chord at a point on the minor arc is (1) 150° (2) 60° (3) 120° (4) 30° 135. The length of each side of a rhombus is equal to the length of the side of a square whose diagonal is 40√2 cm. If the 	then the height of the pillar is (1) 5 m (2) 10 m (3) 7 m (4) 12 m 140. The sum of interior angles of a regular polygon is 1440°. The number of sides of the polygon is (1) 10 (2) 12 (3) 6 (4) 8 141. The base of a right prism is a right-angled triangle whose sides are 5 cm, 12 cm and 13 cm. if the area of the total surface of the prism is 360 cm ² , then its height (in cm) is (1) 10 (2) 12 (3) 9 (4) 11 142. The product cos1° cos2° cos3° cos4° cos100° is equal to (1) -1 (2) $\frac{1}{4}$ (3) 1 (4) 0 143. Three pipes A, B and C can fill a tank in 6 hours. After work- ing together for 2 hours. C is	groups. Study the the questions. Age group Up to 15 16-25 26-35 36-45 46-55 56-65 66 and above 147. If there are 2: below 36 years ber of people the age group (1) 5 (3) 3 148. If the differen number of peo groups 46 - 55 0.975 million, population (in city is	Percent 20.00 18:25 16:75 16:25 15:00 12:50 12:50 2 million people s, then the num-(in millions) in 56 - 65 is (2) 5.5 (4) 3.5 cce between the opple in the age of and 16 - 25 is then the total millions) of the
 (3) 125 (4) 216 132. If the ratio of volumes of two comes is 2 : 3 and the ratio of the radii of their bases is 1 : 2, then the ratio of their bases is 1 : 2, then the ratio of their bases is 1 : 2, then the ratio of their bases is 1 : 2, then the ratio of their bases is 1 : 2, then the ratio of their bases is 1 : 3, and the ratio of their bases is 1 : 3, and the ratio of their bases is 1 : 3, and the ratio of their bases is 1 : 3, and the ratio of their bases is 1 : 3, and the ratio of their bases is 1 : 3, and the ratio of the side of the side of a councel of the side of a square those of the side of the side of a square those of the side of th	then the height of the pillar is (1) 5 m (2) 10 m (3) 7 m (4) 12 m 140. The sum of interior angles of a regular polygon is 1440°. The number of sides of the polygon is (1) 10 (2) 12 (3) 6 (4) 8 141. The base of a right prism is a right-angled triangle whose sides are 5 cm, 12 cm and 13 cm. If the area of the total surface of the prism is 360 cm ² , then its height (in cm) is (1) 10 (2) 12 (3) 9 (4) 11 142. The product cos1° cos2° cos3° cos4° cos100° is equal to (1) -1 (2) $\frac{1}{4}$ (3) 1 (4) 0 143. Three pipes A, B and C can fill a tank in 6 hours. After work-	groups. Study the the questions. Age group Up to 15 16 - 25 26 - 35 36 - 45 46 - 55 56 - 65 66 and above 147. If there are 2: below 36 years ber of people the age group (1) 5 (3) 3 148. If the differen number of peo- groups 46 - 55 0.975 million, population (in city is	Percent 20.00 18.25 16.75 16.25 15.00 12.50 1.25 2 million people s, then the num- (in millions) in 56 - 65 is (2) 5.5 (4) 3.5 cc between the ople in the age and 16 - 25 is



- (2) Trade policy
- (3) Fiscal policy
- (4) Monetary policy

- 154. Who said "Man is a social animal" ?
 (1) Aristotle (2) Rousseau
 (3) Laski (4) Plato
 155. "Marginal Cost" equals
 - (1) total cost minus total benefit for the last unit pro
 - duced (2) total cost divided by total benefit for the last unit produced
 - (3) total cost divided by quantity
 - (4) the change in total cost divided by the change in quantity
- 156. Extreme forms of markets are
 - (1) Perfect competition; Oligopoly
 - (2) Oligopoly: Monopoly
 - (3) Perfect competition; Monopoly
 - (4) Perfect competition; Monopolistic competition
- 157. The President of India has the discretionary power to
 - impose President's Rule in a state
 - (2) appoint the Prime Minister
 - (3) appoint the Chief Election Commissioner
 - (4) declare Financial Emergency
- 158. The script of the Indus Valley Civilization is
 - (1) Kharosthi
 - (2) Undeciphered
 - (3) Brahmi (4) Tamil
- 159. Which one of the following literary pieces was written by Krishna Devaraya ?
 - (1) Kaviraja Marga
 - (2) Ushaparinayam
 - (3) Anukta Maluada
 - (4) Katha Saristhaga
- 160. Name three important forms of Satyagraha.
 - (1) Non-cooperation, civil disobedience and boycott
 - (2) Boycott, civil disobedience and rebellion
 - (3) Non-cooperation, revolution and referendum
 - (4) Revolution, plebiscite and boycott

- 161, Which Article empowers the President to impose Financial Emergency?
 - (1) Article 356 (2) Article 364 (3) Article 352 (4) Article 360
- 162. Which of the following subjects does not figure in the Concurrent List of our Constitution ?
 - (1) Stock Exchanges and futures markets
 - (2) Protection of wild animals and birds
 - (3) Forests
 - (4) Trade unions
- 163. The "Grand Canyon" is on the river
 - (1) Colorado (2) Columbia (3) Ohio (4) Mississippi
- 164. When the East India Company was formed, the Mughal emperor in India was
 - (1) Jehangir (2) Humayun
 - (3) Aurangzeb (4) Akbar
- 165. Which one of the following events did not take place during the Viceroyalty of Lord Curzon ?
 - (A) Establishment of the Department of Archaeology
 - (2) Second Delhi Durbar
 - (3) Formation of Indian National Congress
 - (4) Partition of Bengal
- 166. Who among the following played a prominent role during the "Reign of Terror" in France?
 - (1) Voltaire (2) Marat
 - (3) Robespierre
 - (4) Montesquieu
- 167. The highest waterfall of India is in the state of
 - (1) Andhra Pradesh
 - (2) Assam
 - (3) Maharashtra
 - (4) Karnataka
- 168. Soil which is prone to inten sive leaching due to rain is called
 - (1) Laterite (2) Black
 - (3) Alluvial (4) Red
- 169. The formation of 'Mushroom rock' in desert region is an ex ample of

(1) Deflation (2) Attrition	178. Oning stand stand www.estuga	igeobachic to Defos Imong the
(3) Abrasion (4) Erosion	(1) semiconductor	the following graph gatwollofter the
170. Hydroponics is a method of		(1) MS-Access another (1)
culture of plants without us-		(2) MS-PowerPoint
ing tel secondaria (c)	155. "Marginal Crotaluzni (4)	(3) PL/SQL
(1) water (2) light	179. The Laser is a beam of radia-	
(3) sand (4) soil	tions which are	188. The database in which records
171. The non-green heterotrophic		are organised in a tree-like
plants of plant kingdom are	chromatic 18103 (2)	structure is
(1) mosses (2) ferns	(2) Coherent and monochro-	A second s
(3) algae (4) fungi	matic	(2) Hierarchical database
172. Which gland in the human	(3) Non-coherent and non- monochromatic	(o) relational database
body regulates the secretion of hormones from the pituitary		(4) Object-oriented database
gland?	(4) Concrent and non-mono- chromatic	189. Natural rubber is a polymer of
(1) Thymus gland	180. Centigrade and Fahrenheit	(1) Vinyl acetate
(2) Thyroid gland	temperatures are the same at	(2) Propene
(3) Adrenal gland	(1) 32° (2) 40°	(3) Isoprene
(4) Hypothalamus gland	(3) -273° (4) -40°	(4) Styrene
173. The old and worn-out red blood		190. Which one of the following
corpuscles are destroyed in	universal gravitational con-	nims was not directed by
(1) Liver	stant is	Satyajit Ray ?
(2) Stomach	(1) $M^{-1}L^{3}T^{2}$ (2) $ML^{2}T^{-2}$	(1) Aparajita
(3) Bone marrow	(3) M^{-2} (4) $M^{-1} L^3 T^{-2}$	(2) Charulator (3) Pather Panchali
(4) Spleen	182. The pH of lemon juice is ex-	(4) Salaam Bombay
174. Subtropical high pressure belts	(1) equal to 7	191. The endangered species are
are otherwise called		listed in what colour data
(1) Furious fifties	(2) nothing can be predicted (3) less than 7	o and book?
(2) Screeching sixties	(4) more than 7	5 100 (1) Black (2) Red
(3) Horse latitudes	183. An example of heterocyclic	(3) Green (4) Blue
(4) Roaring forties	compound is	192. Which country won the maxi-
175. Self pollination will lead to	(1) Naphthalene	mum number of medals in the
(1) inbreeding	(2) Furan	Asian Athletic Championships
(2) rare breeding	(3) Benzene	held in Pune recently ?
(3) overbreeding	(4) Anthracene	(1) Japan
(4) outbreeding	184. In electro-refining, the pure	(2) Saudi Arabia
176. In any spreadsheet, the ad-	metal is deposited on	(3) Bahrain
dress of the first cell is	(1) vessel (2) electrolyte	(4) China
(1) OA (2) 1A	(3) cathode (4) anode	193. Which country will host the
(3) A0 (4) A1	185. Which one of the following is	next World Cup Football in 2014?
177. Match List I with List II and	correctly matched ?	(1) France (2) Chile
choose the correct response :	(1) Secondary consumer - Grass	(3) Brazil (4) Spain
List I List II	The second of the second s	194. Which one of the following an-
a. Vitamin B, 1. Pyridoxine	(2) Decomposer - Bacteria (3) Producer - Deer	cient monuments in Delhi is
b. Vitamin B ₂ 2. Cyanoco-	(4) Primary consumer - Leop-	not a World Heritage Monu-
balamin	ard	ment?
c. Vitamin B ₆ 3. Thiamine	100 The Joint	(1) Red Fort
d. Vitamin B ₁₂ 4. Riboflavin	(1) shed their leaves every year	(2) Jantar Maintar
(1) a-l, b-2, c-3, d-4	(2) not lose their leaves	(3) Humayun's Tomb
(2) a-2, b-3. c-4, d-1	(2) constituents (2)	(4) Qutub Minar
(3) a-3, b-4, c-1, d-2	(4) depend on others for their	195. Which one of the following or-
(4) a-4, b-1, c-2, d-3	food	ganizations and its headquar-
		ters are wrongly matched ?

Organizations Headquarters - Lyon (1) Interpol (2) Universal Postal Union - Berne (3) Food and Agriculture - Organization Rome (4) International Civil -- Aviation Organization London 196. Who is the author of the book "The State of the Nation" ? (1) Mark Tully (2) Vinod Mehta (3) Kuldip Nayar (4) Fali S. Nariman 197. Among the following Nobel laureates, who was **not** a recipi-ent of the Nobel Prize for Peace? (1) Sir Winsston Churchill (2) Woodrovy Wilson (3) Linus C. Pauling (4) Norman Ernest Borlaug 198. Which Union Territory in India has four districts but none of its districts has a common boundary with its other districts ? (1) Puducherry (2) Dadra and Nagar Haveli (3) Andaman and Nicobar Islands (4) Chandigarh 199. The Keibul Lamiao, the only floating National Park in the world is in (1) Manipur (2) Mizoram (4) Meghalaya (3) Assam 200. Which one of the following days is not observed in the month of (October ? (1) Indian Air-force Day (2) U.N. Diay (3) World Environment Day (4) International Day of Non-

violence