.9.

10.

11.

and you will know how old I am." What is the age of the person ?

- (a) 18 years
- (b) 20 years
- (c) 24 years
- (d) 32 years
- 24. If in a code language MACHINE is coded as 19-7-9-14-15-20-11. then how would DANGER be coded in that code language? (a) 11-7-20-16-11-24
 - (b) 13-7-20-9-11-25
 - (c) 10-7-20-13-11-24
 - (d) 13-7-20-10-11-25
- 25. If in a code language TEACHER is written as PACKRAT and FIGURE as LODZCTA, how can FATHER be written in that code ?

(a) LCPRAT (b) LQDCFA (d) LCDRAT (c) OCPRAT Directions (26-27) : In these questions given below, some equations are solved on the basis of a certain system. On the same basis, find out the correct answer for the unsolved equation.

26. If

57842 = 14and 62735 = 41

- then 53649 = ?
- (a) 27 (b) 52
- (d) 46 (c) 39
- **27.** $5 \times 4 \times 3 = 4253$, $7 \times 3 \times 4 = 3494$,
 - $9 \times 4 \times 5 = ?$
 - (a) 4815 (b) 8145
 - (d) 9165 (c) 9425
- 28. Select the correct combination of mathematical signs to replace * signs and to balance the given equation
 - 2*4* 6* 2* 12 (a) $\times +-=$ (b) $\times -+=$
 - (c) $+ \times = \cdot$ (d) + + =
- 29. If '×' means ÷, '-' means ×, '÷' means + and '+' means -, then find the value of the given equation.
 - $(3-15\div11) \times 8+6=?$
 - (a) 8 (b) 0
 - (c) 4 (d) 1

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Directions (30-31) : In following questions, select the missing number from the given responses.

12 00000





(a)	10 km	(b)	4 km
ar	TO KIII	(0)	Contraction of the second second

- (d) 0 km (c) 16 km
- 33. Six boys stand in a row A, B, C, D. E and F. B is between F and D; E is between A and C; A does not stand next to either F or D. C does not stand next to D. Then F is between which of the following pairs of boys ?
 - (a) B and D
 - (b) B and A
 - (c) B and C
 - (d) B and E
- 34. Jyoti started early in the morning on the road opposite to the sun. After some time, she turned to her left and walked. Again she turned to her left, walked and again turned to her left. Which side was she facing?
 - (a) West (b) North
 - (c) East (d) South
- 35. Which of the following figures best represents the relationship amongst the three classes ?



36. Which one of the following diagrams best represent the relationship among Sisters, Women, Mothers?



37. Three different positions of a cube are as shown below. What symbol is opposite to the cross ?



- (a) Circle (b) Dot (c) Square (d) Star
- 38. Study the following figures and answer the question given below :



Directions (39-40): In following questions, one/two statement!(s) are given, followed by two/four conclusions I, II, III and IV. You have to consider the statement's to be true even if they seem to be at variance from commonly known facts. You have to decide which of the given conclusions, if any, follow from the given statements.

39. Statement :

Rain falls from cloudy sky.

Conclusions :

- I. Cloudy sky always brings rain.
- II. Sunny sky can never bring rain.
- (a) Only conclusion I follows
- (b) Only conclusion II follows
- (c) Both conclusions I and II follow
- (d) Neither conclusion I nor II follows

40. Statements :

- 1. Some doctors are students.
- 2. All students are boys.

Conclusions:

- I. All the doctors are boys.
- II. Some boys are doctors.
- III. Some boys are students.
- IV. All students are doctors.
- (a) Only conclusion I follows
- (b) Only conclusions I, II and III follow
- (c) All conclusions follow
- (d) Only conclusions II and III follow

Directions (41-42) : In following questions, which answer figure will complete the pattern in the question figure ?

41. Question figure :



Answer figures :



42. Question figure hosted by educationship figures com/forum



Answer figures :



Directions (43-44) : In following questions, from the given answer figures, select the one in which the question figure is hidden/ embedded.

43. Question figure :



Answer figures :









Directions (45-46) : In following questions, 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.

45. Question figures :



Answer figures :







Directions (47-48) : In following questions, if a mirror is placed on the line MN, then which of the answer figures is the correct image of the given figure ?

47. Question figure :



Answer figures :



48. Question figure :





49. 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 the two matrices given below. The columns and rows of Matrix I are numbered from 0 to 4 and that of Matrix II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, e.g. 'C' can be represented by 02, 11, 20, etc., and 'J' can be represented by 58,

66, 75, etc. Similarly, you have to identify the set for the given word 'BAG'.

Matrix-I					Matrix-II							
	0	1	2	3	4	2	1	5	6	7	8	9
0	A	B	C	D	E	1					J	
10 C	в	1.000	-		-						G	
	C		-		-						H	
3	A	D	E	B	C	1.24	8	K	G	J	H	I
4	E	A	C	D	B		9	J	H	I	K	Ĝ
(b)	(a) 10, 30, 55 (b) 86, 01, 21 (c) 66, 77, 89											
(d)) 4	0,	12	. 3	4							

50. A word is represented by Siny one's 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 the two matrices given below. The columns and rows of Matrix I are numbered from 0 to 4 and that of Matrix II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, e.g. 'B' can be represented by 02, 13, 31, etc.,

educationabse									
67, 75, etc. Similarly, you have identify the set for the given wor 'CARE'.									
Matrix-I	Matrix-II								
01234	56789								
OACBDE	5 P Q R S T								
1 C A D B E	6 R Q P S T								
2 E A B D C	7 PRTSQ								
3 D B E C A	8 Q R S T P								
4 A B C D E	9 P T S Q R								
(a) 10, 00, 65, 20 (b) 40, 41, 44, 90									
(c) 20, 30, 00, 55									
(d) 01, 21, 75, 14									
RAL AWARENE	SC STOLEN								

d

51. Who is the father of Political Science ?

PART - B : GENERAL

- (a) Plato
- (b) Aristotle
- (c) Machiavelli
- (d) Rousseau
- **52.** To divert those who were on wrong path to right path Mahatma Gandhi adopted :
 - (a) Non-violence
 - (b) Trusteeship
 - (c) Radical anarchism
 - (d) Satyagraha
- 53. On what basis does Marx's dialectical materialism interpret and analyse the social events ?
 - (a) Political forces
 - (b) Communal forces
 - (c) Material forces
 - (d) International milieu
- 54. Which of the following is not a function of the Election Commission of India?
 - (a) To prepare electoral list
 - (b) To encourage candidates to seek election
 - (c) To conduct election for different posts and bodies
 - (d) To hear petitions against irregularities in elections
- 55. Who presides over the joint sittings of Parliament ?
 - (a) Speaker of Lok Sabha
 - (b) Vice President
 - (c) President
 - (d) Prime Minister
- "Transitory" income represents :
 (a) Permanent income

- (b) Regular income
- (c) Current income
- (d) Future income
- 57. The total costs of production of a firm consist of :
 - (a) the supplementary costs and the opportunity costs

KNOWLEDGE AND GENER

- (b) total private costs and total social costs
- (c) total fixed costs and total variable costs
- (d) the average costs and the marginal costs
- **58.** Which of the following factors differentiate Perfect competition from Monopolistic competition ?
 - (a) Product differentiation and sales promotion activities
 - (b) Number of buyers and sellers
 - (c) Entry and exit barriers for the firms
 - (d) Cost and revenue functions
- 59. Interest Rate policy is a part of :
 - (a) Fiscal policy
 - (b) Industrial policy
 - (c) Monetary policy
 - (d) None of the above
- **60.** Deficit financing directly influences the :
 - (a) Trade cycle_
 - (b) Investment
 - (c) Interest rate
 - (d) Money supply
- 61. The Vinaya Pitaka deals with :
 - (a) Buddhist Sangha
 - (b) Buddha's sermons
 - (c) metaphysical problems(d) birth stories of Buddhist
 - monks

- 62. The foreign traveller who visited Vijayanagar during the reign of
 - Deva Raya II was :
 - (a) Fahien
 - (b) Nuniz
 - (c) Nicolo Conti
 - (d) Hiuen-Tsang
- 63. Match the following treaties with whom they were concluded by the English :
 - a. Treaty of Allahabad
 - b. Treaty of Fyzabad
 - c. Treaty of Surat
 - d. Treaty of Seringapatam
 - 1. Raghunatha Rao
 - 2. Tipu
 - 3. Shah Alam
 - 4. Asaf-ud-daulah *
 - (a) a-3, b-4, c-2, d-1
 - (b) a-4, b-3, c-1, d-2
 - (c) a-3, b-4, c-1, d-2
 - (d) a-4, b-1, c-2, d-3
- 641. The ratio of population and the land area is defined as :
 - (a) Distribution
 - (b) Density
 - (c) Growth
 - (d) Concentration
- 65. The molten rock inside the Earth is called :
 - (a) Pumice (b) Magma
 - (c) Lava (d) Laterite
- 66. The Wular Lake originated due to the action of :
 - (a) River (b) Glacier
 - (c) Tectonism (d) Volcano

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- 67. A proclamation imposing "President's Rule" in a State under Article 356 should be ratified by the Parliament if it is to continue beyond :
 - (a) One month (b) Two months
 - (c) Six months (d) One year
- 68. The Tenth Schedule of the Constitution of India incorporates :
 - (a) National languages of India
 - (b) Administration of Scheduled and Tribal areas
 - (c) Allocation of seats in the Council of States
 - (d) Anti-defection law
- 69. For which one of the following taxes, was Constitutional provision made much later after its initial introduction in a small way in 1994 - 95?
 - (a) Corporation Tax
 - (b) Taxes on Services
 - (c) Income Tax
 - (d) Customs Duty
- 70. Who propounded the "advaita" philosophy ?
 - (a) Ramanuja
 - (b) Sankaracharya
 - (c) Vallabhacharva
 - (d) Madhavacharya
- 71. Which Mughal Emperor's Court did Sir Thomas Roe visit?
 - (a) Humayun (b) Jahangir
 - (c) Shah Jahan (d) Akbar
- 72. Interferons are :
 - (a) Anti-viral agents
 - (b) Anti-bacterial agents
 - (c) Anti-fungal agents
 - (d) Anti-helminthic agents
- 73. Zoonosis is a disease, which is naturally transmitted from :
 - (a) Animal to animal
 - (b) Animal to humans
 - (c) Humans to animal
 - (d) Primary host to secondary host
- 74. In the human body, which one of the following organs is responsible for maintaining water balance ?
 - (b) Liver (a) Heart (d) Lungs
 - (c) Kidney

- 75. Electrons in the atom are held in 85. Which one of the following is not
 - the atom due to : (a) Nuclear forces

 - (b) Coulomb's forces
 - (c) Vander Waal's forces (d) Gravitational forces
- 76. What is the main reason for the shining of diamond?
 - (a) Refraction
 - (b) Total internal reflection
 - (c) Reflection
 - (d) Interference
- 77. Which one of the following natural regions is known as the "Bread Basket" of the world ?
 - (a) Steppe region
 - (b) Mediterranean region
 - (c) Monsoon region
 - (d) Equatorial region
- 78. During 2012-13, which one of the following has emerged as India's top farm export commodity?
 - (a) Cardamom (b) Guar gum
 - (c) Basmati rice (d) Raw cotton
- 79. The plant hormone that regulates phototropism is :
 - (a) Auxins
 - (b) Gibberellins
 - (c) Cytokinins
 - (d) Abscisic acid
- 80. Sea turtle lays its eggs :
 - (a) in sea
 - (b) in estuarine water
 - (c) in fresh water pockets on the shore
 - (d) on land
- 81. Which antibody is the mediator of allergic response?
 - (a) IgG (b) IgE
 - (c) IgA -(d) IgM
- 82. Natural rubber is a polymer of :
 - (a) Ethylene (b) Neoprene
 - (d) Isoprene (c) Isobutane
- 83. Benzene exhibits :
 - (a) Mesomerism
 - (b) Tautomerism
 - (c) Electromerism
 - (d) Nuclear isomerism
- 84. Caffeine is :
 - (a) 1:2:5- trihydroxy-xanthine
 - (b) 2:6- dihydroxy-purine
 - (c) 1:3:7- trimethyl-xanthine
 - (d) 2:4- dihydroxy-xanthine

- a site for in situ method of conservation of flora?
- (a) Biosphere Reserve
- (b) Botanical Garden
- (c) National Park
- (d) Wild-life Sanctuary
- 86. Which one of the following statements about Compressed Natural Gas (CNG) is not correct?
 - (a) CNG is obtained during the refining of crude oil.
 - (b) CNG is environmentally much cleaner than the other fossil fuels.
 - (c) CNG comprises primarily methane.
 - (d) Unlike LPG, it is not liquified.
- 87. Oil-film on water shows colour due to :
 - (a) Dispersion
 - (b) Interference
 - (c) Diffraction
 - (d) Polarization
- 88. MCB's which are used in place of main fuses in household wiring circuits are known as :
 - (a) Microwave circuit breakers
 - (b) Miniature circuit breakers
 - (c) Micro circuit breakers

repetition of a loop is :

90. Magnetic tape can serve as :

(c) Secondary storage media

(a) Rectangle

(c) Circle

(d) Hexagon

(a). Input media (b) Output media

91. Tetraethyl lead is :

(a) a solvent

(d) All of the above

(b) a petroleum additive

92. Which was the venue for the 100th

Science Congress held in the first

(b) Chennai

(d) Kolkata

(c) an oxidising agent

(d) a fire-extinguisher

week of January 2013?

(a) Bengaluru

(c) Jaipur

(b) Parallelogram

(d) Magnetic circuit breakers 89. Symbol used in flow chart for

- 93. Who held the office of the Prime Minister of Britain continuously for the longest duration in the 20th century ?
 - (a) Winston Churchill
 - (b) Clement Attlee
 - (c) Harold Wilson
 - (d) Margaret Thatcher
- 94. Who is the first recipient of the Annual Tagore Award for Cultural Harmony?
 - (a) Pandit Ravi Shankar
 - (b) Pandit Bhimsen Joshi
 - (c) Ela Bhatt
 - (d) Nirbhaya
- 95. The first book of non-fiction written by Chetan Bhagat is :
 - (a) Five Point Someone

- (b) The 3 Mistakes of the diley education observer com/forum
- (c) What Young India Wants
- (d) Julia Gillard
- (c) Angela Merkel
- (d) None of the above
- 97. Use of microbes to clean up the pollutants is termed as :
 - (a) Tyndallisation
 - (b) Bioprocessing
 - (c) Bioremediation
 - (d) Bioprospecting
- 98. Who is the Chairman of the 14th **Finance Commission**?
 - (a) Montek Singh Ahluwalia
 - (b) D. Subba Rao
 - (c) Y. Venugopal Reddy

PART - C : OUANTIT DDE

two right circular cones is 3:4

- 101. 3 men and 8 women together can 104. Ratio of the radii of the bases of do a certain work in 12 days, while 2 men and 7 women can do it in 16 days, 8 men and 8 women working together will complete this work in :
 - (a) 4 days (b) 5 days
 - (c) 6 days (d) 8 days
- 102. The following figure is of a circle with centre O and radius 12 units. The area of the shaded region, in square units, is :



- (a) $24\pi 36\sqrt{3}$
- (b) $24\pi + 36\sqrt{3}$
- (c) $144\pi 36\sqrt{3}$
- (d) $144\pi + 36\sqrt{3}$
- 103. Solid spheres of diameter 3 cm are dropped into a cylindrical vessel and are fully submerged. The diameter of the base of the cylindrical vessel is 9 cm. The number of spheres dropped if the 109 water-level in the vessel rises by 10 cm is : (a) 35 (b) 40
 - (d) 45 (c) 42

- and that of their heights is 4 : 3. Then the ratio of their respective volumes is : (a) 1:1 (b) 3:2 (c) 2:3 (d) 3:4 105. If $x = \sqrt[3]{3}$, $y = \sqrt[4]{4}$ and $z = \sqrt[6]{6}$, then : (a) x < y. (b) v < z(c) z < x(d) x = v = z106. When a positive whole number is divided by 56, the remainder obtained is 29. If the number is divided by 8, the remainder will be : (a) 6 (b) 7
 - (c) 4 (d) 5
- 107. Two non-zero numbers are such that their difference, their sum and their product are in the ratio of 1:5:36. The sum of the numbers is :
 - (a) 40(b) 45 (c) 50 (d) 30
- 108. The value of

	$\sqrt{0.0001} + \sqrt{0.0001}$	00000064 is :
	(a) 0·9	(b) 0.003
	(c) 0.03	(d) 0·3
9.	The value of	$1 + \frac{2}{3}$ is

(a) (b)

specialised agencies of U.N. is

(a) International Labour Organis-

(b) World Meteorological Organ-

(d) International Civil Aviation

won the inaugural Hockey India

League (HIL) in February 2013?

(c) World Trade Organisation

100. Which one of the following teams

not in Geneva?

ation

isation

Organisation

(a) Delhi Wave Riders

(c) Uttar Pradesh Wizards

(d) Jaypee Punjab Warriors

(b) Ranchi Rhinos

- (c)
- 110. Ramesh is thrice as good a workman as Bipan and is therefore able to finish a piece of work in 40 days less than Bipan. Find the time in which they can do it working together.
 - (a) 10 days (b) 15 days
 - (c) 20 days (d) 25 days
- 111. A and B are two alloys of gold and copper prepared by mixing them in the ratio 7 : 2 and 7 : 11 respectively. If equal quantities of the two alloys are melted to form a new alloy C, the ratio of gold and copper in C is :
 - (a) 5:6 (b) 6:5
 - (c) 5:7 (d) 7:5
- 112. The surface of a sphere is coloured in black and white in the ratio of 2:3 by area. If the ratio of black and white in one hemisphere be 1: 4, then the ratio of black and white in the other hemisphere is :
 - (a) 3:2(b) 5:3
 - (c) 3:4 (d) 4:3
- 113. Six men A, B, C, D, E, F agree with a seventh man G to provide a

(d) Govinda Rao

	File bested b	u aduactiona baan ar a sa tan
sum of money among them. A,	B, number of cones recasted is	Vakeducationobserver com/torum
C, D, E, F are to subscribe ₹ 1	$00 \pi = 3.14$):	OAC is :
each and G is to pay ₹ 30/- mo		(a) 40° (b) 50°
than the average of the seven. T		(c) 80° (d) 100°
whole sum (in ₹) to be provid		
is:	commission on the retail price	
(a) 730 (b) 700	his product, he earns a profi	it of Then the profit percentage is :
(c) 735 (d) 695	8.8%. What would be his p	
114. A train travels from place A	to percent if the commission	is 10^{10} 10^{10} 10^{10} 3^{10}
place B at an average speed	of reduced by 24%?	() 55
80 km/hour and returns at a spe	(a) 49 (b) 49.6	(c) 55 (d) $55\frac{2}{3}$
of 70 km/hour. Average speed	of (c) 50 (d) 20	3
the whole journey (in km/hour) is		129. Due to a 40% increase in the price
the whole journey (in kin/hour) is	25% and 10% on, an article	
(a) 75 (c) 74^{2}	equal to a discount of :	
sumberant anaras 3 reals	(a) 40% (b) 46%	before. Find the original price of
(b) $74\frac{1}{3}$ (d) $75\frac{2}{3}$		each book.
	122 The area (in	(a) ₹ 2/- (b) ₹ 3/-
115. A man makes a profit of 20% o	122. The area (in square un	its) · (c) ₹ 4/- (d) ₹ 5/-
selling an article even after	ounded by the straight 1	ine 130. 30% of the sum of two numbers is
deducting his trading expenses of	Freedoming Sa 1 SV = 12 WHII	the equal to 40% of their difference.
40% on the selling price. Th		The ratio of the greater one to the
percentage by which the self		smaller one is :
percentage by which the selling		
price exceeds the cost price is :	123. Simplified form of	
(a) 40 (b) 60		(c) 7:1 (d) 7:2
(c) 80 (d) 100 ·	$\frac{(x^2-y^2)^3+(y^2-z^2)^3+(z^2-x^2)^3}{(z^2-x^2)^3+(z^2-x^2)^3}$) ³ 131. A train of length 160 metres
116. The length and breadth of a	$(x-y)^3 + (y-z)^3 + (z-x)^3$	crosses platform of length 320
rectangle are in the ratio 5 : 3. If	is:	metres in 36 seconds, then the
cach of the sides of the rectangle		speed of the train, in km/hour, is :
is extended by 4 cm, the ratio of	(4) (x y)(y-2)(2-x)	(a) 40 (b) 45
the length and breadth 1	(b) $(x+y)(y-z)(z+x)$	(c) 60 (d) 48
the length and breadth becomes		132. If ₹ 26,000/- is divided into three
8:5. The change in area of the	(c) $(x-y)(y+z)(z+x)$	parts in such a way that the simple
rectangle, in cm ² , is :	(d) $(x+y)(y+z)(z+x)$	interest for 2 years calculated at
(a) 640 (b) 540	124. One of the factors of	4% rate on the first part, at 6% rate
(c) 400 (d) 300	$(25x^2-1)+(1+5x)^2$ is :	on the 2 nd part and at 8% rate on
117. If the radii and the heights of a		the third part are equal to each
hemisphere, a circular cylinder		other then the first part is
and a cone be all equal, the ratio	(c) $5x-1$ (d) $10x$	other, then the first part is equal to :
of their volumes is :	125 If $x = \sqrt{3}$ then the 1	
(a) 3:1:2 (b) 3:2:1	125. If $x = \frac{\sqrt{5}}{2}$, then the value of	(a) ₹7,000/-
(c) $1:2:3$ (d) $2:3:1$		(b) ₹ 7,500/-
118 Fach side of a	$\frac{\sqrt{1+x}-\sqrt{1-x}}{\sqrt{1-x}}$ is :	(c) ₹ 10,000/=
118. Each side of a square is 3 cm. The	$\sqrt{1+x}+\sqrt{1-x}$ is:	(d) ₹ 12,000/-
area of an equilateral triangle		133. If $b = \frac{1}{a}$ and $a + b = \sqrt{3}$, then the
whose height is equal to the	(a) $\frac{1}{\sqrt{3}}$ (b) $\sqrt{3}$	a and $a+b=\sqrt{3}$, then the
diagonal of the given square is :	N3	value of $a^3 + b^3 + 2$ will be :
	(c) $\frac{2}{\sqrt{2}}$ (d) $\frac{\sqrt{3}}{2}$	(a) 2 (b) 1
(a) $\frac{2\sqrt{3}}{3}$ sq cm (b) $\frac{3\sqrt{2}}{5}$ sq cm	$\sqrt{3}$ (u) $\frac{1}{2}$	(c) 5 (d) 3
	26 ABCD is a quality to a statistical states in the	
(c) $\frac{3\sqrt{2}}{2}$ sq cm (d) $6\sqrt{3}$ sq cm	26. ABCD is a cyclic trapezium and	134. The value of $\sin^2 21^\circ + \sin^2 37^\circ$
	AB CD. If AB be the diameter of	
119. The surface area of a solid	the circle and $\angle CAB = 30^\circ$, then	(a) 0 (b) 1
metallic sphere is 1256 sq cm. If it	Z ADC is :	(c) 2 (d) 3
is melted and recasted into solid	(a) 60° (b) 80°	135. Two persons are on opposite sides
right-circular conas of ratio 2 St	(c) 100° (d) 120°	of a tower. They measure the
cm and height 9	27. The circumcentre of the triangle	angle of elevation of the top of the
cm and height 8 cm, then the	ABC is O. If \angle BAC = 75°, \angle	tower as 45° and 20°
CAPE	RS DIGEST	tower as 45° and 30° respectively.
CARCI	IND LILTEN MER (NAVAMAAN 0049	

TO PROFE SURVEY AND		the two men is : +1) (b) $60($	(3+2)	143.1 In which schooly is the reation of busients the largest/for um (a) A (b) C (c) D (d) E 144. The total number of students of school A is more than				
120				the total number of students of school E by :				
136.		le ABC, AB = AC, D i 0° and \angle CAD = 30° , 1		(a) 16.67% (b) 18% (c) 19.3% (d) 20%				
	BAD is :	0 and 2 CAD = 30 ,	anen ure medsure of Z					
Station of	(a) 10°	(b) 30°	" Libring port of Human	145. The ratio of the number of students of schools A and B				
	(c) 40°	(d) 50°.	in the subias	together scoring marks less than or equal to 60% to the				
137.	In a triang	le PQR, $\angle P = 30^{\circ}, \angle$	$R = 40^{\circ}$. The sides of	number of students of schools D and E combined scoring marks greater than 60% is :				
CALCER IN	(X) (1.0) (1.0) (1.0) (0.0) (1.0)	e in ascending order of		(a) '8:11 (b) 11:8				
14400	(a) PQ<0	CONTRACTOR AND A DECIDENCE AND A DECIDE AND A DECIDENCE AND A	< PR < PQ	(c) 9:7 (d) 13:9				
120	(c) $QR < 1$	PQ < PR (d) PQ < , D and E are points		Directions (146 150) · Poad the following granh and				
138.	In Δ ABC	, D and E are points ly, such that $DE \parallel BC$ a	and AD : $DB = 3$: 1. If	answer the questions.				
	EA = 3.3c	em, AC is :	and the second second second	The graph shows income and expenditure				
Start.	(a) 1.1cm	(b) 4 cm		(₹ in crores) of a company over the years.				
	(c) $4 \cdot 4 \operatorname{cr}$		3	n → Income → Expenditure				
139.	If $0 \le \alpha \le 9$	90° and $\sec \alpha - \tan \alpha =$	$=\frac{3}{5}$, then the value of	1000 900 0 0 0 0 0 0 0 0 0 0 0 0				
120.0	$\tan \alpha$ is :	2 A State Land	- Alter and a state of the					
1000	8	1.5						
13104	(a) $\frac{6}{15}$	(b) $\frac{3}{3}$	Aller & Contraction	· 700				
	(c) $\frac{3}{2}$	(d) $\frac{1}{2}$						
140	Ifcos ⁴ A	$\sin^4 \theta = \frac{2}{3}$, then the v	alue of $1 - 2\sin^2 \theta$ is :	500				
140.	neos 0-		und drift som ond.					
「「「「「「」」	(a) $\frac{1}{2}$	(b) $\frac{2}{3}$		2 300-				
and the	2	3						
	(c) $\frac{1}{\sqrt{2}}$.	(d) 2	and the second					
-	$\sqrt{2}$	the standard and the second						
141.		num value of $2\sin^2 \theta$.	$+3\cos^2\theta$ is :	In 2007 2009 2010 2010 2011 2012				
	(a) 1	(b) 2 (d) 4	Strate Contraction	Years				
Contraction of the	(c) 3 Direction	(a) 4 (a) 4 (a) 4 (b) 4 (c) 4	e following table and					
1 Exercite		e questions.		140. In which two years was the meente are same				
Ner Her	Carl of Contral	Here and the second	The second second	(a) 2007 and 2008 (b) 2008 and 2009 (c) 2009 and 2010 (d) 2010 and 2011				
2 /2	a start	Number of students	Percentage of	147. Ratio of total income to total expenditure over the				
4 AL	School	scoring marks	students scoring marks ≤ 60%	years was :				
	the same to be the same	above 60%	. marks > 00%	(a) 13 : 11 (b) 73 : 75				
States and	A	600	60	(a) 13 . 11 (c) 73 : 65 (d) 93 : 77				
用心心	-			148. In how many of the given years was the expenditure				
	B	585	50	more than the average expenditure of the given years?				
O Sucha Fai	1211		60	(a) 1 (b) 2				
S.C. Prove	C	720	60	(c) 3 . (d) 4				
	D	330	75	149. The percentage decrease in expenditure from 2008 to				
	D	530	Constant and	2009 was :				
	E.	750	40	(a) 10 (b) 11				
	La Jora	Alter and the state		(c) 12.5 (d) 16.7				
142		rage number of stude	nts scoring marks less					
		qual to 60% is : (b) 813	A POST A	of years was equal to the income in 2012?				
- Att	(a) 811 (c) 831	(d) 833		(a) 2007-2008 (b) 2008-2009				
	(0) 051	Little College Control		°(c) 2009-2010 (d) 2011-2012				

	-	ANY AND STA	-	dug	ationobserver conviorum
PARI	-D	DNGLISH	and the second		He pulled all the stops out to
Directions (151-155) : In following	No. and	(a) hold togethe	Band Barrish Barrish		clinch the title.
questions, some parts of the		(b) get off	(中国内(134)) ABA		(a) tried whole-heartedly
sentences have errors and some		(c) hold back (d) get away.			(b) tried half-heartedly
are correct. Find out which part of a sentence has an error and mark	No.		(61-165) : In		(c) tried intelligently
corresponding to the appropriate				pol of	(d) tried honestly
letter (a, b, c). If a sentence is free	Carrist	following questions, out of the four alternatives, choose the one			Whenever I meet a new client l try
from error, mark corresponding to	The state	which best expresses the meaning			to break the ice.
(d) in the Answer Sheet.		A STATE OF A	ord and mark it in		(a) to go for a drink and food
1. The MD/(a) together with heads	in a	the Answer She		Water St	(b) to make the atmosphere
of departments/(b) are preparing a	161.	Zest	provide a state	Take 5	comfortable
new budget/(c). No error (d)	Naple C	(a) nest	(b) jest		(c) to avoid looking into the eyes
2. You should not only submit/(a) your application but also/(b) your	R. Bar	(c) zeal	(d) deal	- alats	(d) to gain confidence by talking
certificates today/(c). No error/(d)	162.	Incite	Carlos Tan Carl	173.	The moment he was asked the
3. This is one of/(a) the most	WHEN	(a) culminate	(b) excavate	1	question, he developed cold feet.
thrilling movies/(b) that have been	164	(c) denigrate	(d) instigate		(a) became nervous
released recently/(c). No error/(d)	163.	Writhe	di mitti fatnat litra	Sillin	(b) became indignant
. Yesterday, I saw a movie/(a) that	and the second second	(a) squirm	(b) garland	北京公	(c) became inquisitive
my friends had seen/(b) the week	att is	(c) wrap	(d) move	N ad	(d) became jovial
before/(c). No error/(d)	164.	Hegemony		174	For all his efforts, his day's perf-
5. Can I/(a) do this/(b) for you please	267.94.38	(a) domination	(b) extermination	1/4.	ormance turned out to be a damp
?/(c) No error/(d)	and the second s	(c) protection	(d) patrimony		squib.
Directions (156-160) : In	165.	Terrestrial		and the	(a) hugely successful
following questions, sentences are	26.00	(a) celestial	(b) practical		(b) moderately impressive
given with blanks to be filled in	A.Taukiye.	(c) moral	(d) earthly		(c) totally unimpressive
with an appropriate word (s). Four	ANT CARL	Directions (166-	170) : In following		(d) very meaningful
alternatives are suggested for each	Santesia Sinta	A - AND NO CHARTER PROPERTY	pose the word		He came hot on the heels of his
question. Choose the correct		opposite in mea	ning to the given		brother.
alternative out of the four and		A KIND TO BE A SHEET OF THE PROPERTY AND A REPORT	it in the Answer		(a) ahead of
indicate it in the Answer Sheet.		Sheet.	······································		(b) far behind
. We should not spend money	166.	Ostensible			(c) closely following
uselesslyluxuries.		(a) spiritual	(b) actual		(d) fastened to the heels
(a) for (b) about		(c) partial	(d) natural		Directions (176-180) : In follow-
(c) with (d) on		Hazardous	(a) natural		ing questions, a part of the sent-
. The two sisters argued with each		(a) safe	(b) dangerous		ence is bold . Below are given
other over a		(c) fast	(d) obstructive		alternatives to the bold part at
(a) time (b) respect	and the second second	Obdurate	(u) obstructive		(a), (b) and (c) which may
(c) duty (d) trifle		CONTRACTOR AND	(h) analysis	A LAND	improve the sentence. Choose the
After having sought my help		(a) pliant	(b) angry		correct alternative. In case no
(a) my friend left me all alone	SULAR	(c) indifferent	(d) calm	A CALL	improvement is needed, your

- (b) I was left all alone by my friend
- (c) I was alone

151

152

153.

154.

155.

. Pitte 156.

157.

158. 1

- (d) I asked her to leave me alone 159. It was a collision, but the
 - drivers weren't hurt.
 - (a) top to bottom
 - (b) head over shoulders
 - (c) face-to-face
 - (d) head-on
- 160. At the time of such crisis, it is important that we and fight our way out.

169. Charismatic (a) uninspiring (b) pleasant 176. You've been late for a week, you (c) dogmatic (d) versatile 170. Fabricated (a) automatic (b) fantastic (c) authentic (d) strategic Directions (171-175) : In following questions, four alternatives are given for the Idiom /Phrase bold in the sente- nce. Choose the alternative which best expresses the meaning of the Idiom /Phrase and mark it in the Answer Sheet.

(d) No improvement 177. When the child was growing up into a little boy, he was relegated

had better mended your ways.

- to the care of servants. (a) grew up into a little boy
- (b) was grown up into a little boy
- (c) grew into a little boy
- (d) No improvement

answer is (d).

(a) mending

(c) be mending

(b) mend

178. What follows is suggestions	1
given under several heads.	
(a) are suggestions	1
(b) is a list of suggestions	-
(c) is lot of suggestions	
(d) No improvement	
179. The old gentleman turned up to be	
a good friend of my grandfather.	
(à) turned out	
(b) turned over (c) turned in	
(d) No improvement	
180 As the ease is increased by	
180. As the case is incourt let us not	
discuss it.	
(a) under the judge	
(b) subjudice	
(c) subject to judgement	
(d) No improvement	
Directions (181-185) : In following	
questions, out of the four	
allernatives, choose the one which	
can be substituted for the given	1
words/sentence.	
181. To segregate persons with an	14
infectious disease.	
(a) Quarantine (b) Isolate	
(c) Demarcate (d) Separate	
182. One who loves his fellow men :	
(a) Misanthropist	
(b) Philanthropist	
(c) Geologist	
(d) Anthropologist	
183. That which cannot be conquered :	
(a) Invulnerable (b) Invincible	
d (c) Impregnable (d) Impenetrable	
184. Fond of company :	
(a) Social (b) Socialist	
(a) Social (b) Socialist (c) Sociable (d) Socialite	
185. The absence of Government in a	
country :	
(a) Anarchy (b) Dictatorship	
(c) Democracy (d) Theocracy	
(c) Democracy (d) Theocracy Directions (186-190) : In following	
questions, groups of four words	
are given. In each group, one word	
is correctly spelt. Find the	
correctly spelt word and mark your	
answer in the Answer Sheet.	
186. (a) Septagenerian	
(b) Septeugenerian	
(c) Septuagenarian	
(d) Septuagenerian	
(d) Septuagenerian 187. (a) Mediterrannean	
(b) Mediterranean	2 Ph
(c) Mediterannean	
(d) Medeterranean	
88. (a) Subtelty (b) Suttly	
(c) Subtlety (d) Subtlty	

- (c) Anihilate (d) Anihelate
- 90. (a) Encyclopaedia
 - (b) Encyclopedea
 - (c) Ensyclopidia
 - (d) Ensyklopedia

Directions (191-200) : In following questions, you have two passages with 5 questions each. Read the passage carefully and choose the best answer to each question out of the four alternatives and mark it in the Answer Sheet.

PASSAGE-J

Like the vice of complaining discussed earlier, it is easy to fall into the habit of condemning others, even those we love most. We criticise the way someone cats or the manner in which she speaks. We focus on the most minute details and find fault with the smallest of issues. But what we focus on grows. And if we keep focusing on a small weakness in someone, it will continue to grow in our minds until we perceive it to be a big problem in that person.

Would you really want to live in a world where everyone looked, acted and thought exactly as you do ? It would be a pretty boring place. To live a happier, more peaceful life, begin to see that the richness of our society comes from its diversity. What makes relationships, communities and countries great are not the things that we have in common but the differences that make us unique. Rather than looking for things to criticise in those around you, why not begin to respect the differences ? Often, we perceive in others the weaknesses we most need to address within ourselves. Stop blaming and condemning. Accept complete responsibility for the way things are and resolve to work on changing yourself before seeking to change others. This is one of the truest measures of a person of strong character. As Erica Jong said, "Take your life into your own

89. (a) Annihilete FIG Annihilade by edulationado star dappensn/forum terrible thing : no one to blame."

- 191. How should we alter our perspective ?
 - (a) We should try to help people solve their problems and not shun the less fortunate.
 - (b) We should not look for things to criticise in others, rather we should respect differences.
 - (c) We should wish very well for others, from whom we are most different.
 - (d) That the event of falling in love includes overlooking the weaknesses in people.
- 192. What are the consequences of focusing on finding faults with people?
 - (a) That our minds become narrow and we grow pessimistic, not being able to see the good qualities of others.
 - (b) That we become too complaining and it becomes too difficult. almost impossible, for people to interact with us.
 - (c) If we continuously find fault, small defects begin to loom very large.
 - (d) That differences are created between neople and consequently, relationships are embittered.
- 193. What should one do, to achieve a better and a more satisfying life ?
 - (a) Realise that the strength of our society comes from diversity.
 - (b) Understand that all are one and we are not different from each other.
 - (c) Understand that this world is ours and we have to be accountable for our actions.
 - (d) Put an end to our expectations and live in harmony with others.
- 194. What proves that a person has a strong character ?
 - (a) That a person, before wanting to effect a change in others, seeks to correct his own weaknesses.
 - (b) That he does not fall weak when he needs to take a strong decision.

- (c) That when a person notices a weakness in another person, he does not start disliking him.
- (d) That the person is able to look beyond all differences and turn foes into friends.
- **195.** What is the unique nature of most of our observations about others' weaknesses ?
 - (a) That with our strengths are combined our weaknesses which others loath.
 - (b) That people keep growing weaker daily with too many failures.
 - (c) We see as flaws in others what are really weaknesses in ourselves.
 - (d) That we can strengthen people and turn their weaknesses into strengths for us, whenever we need.

PASSAGE-II

The greatest enemy of mankind as people have discovered is not science but war. Science merely reflects the prevailing social forces. It is found that, when there is peace, science is constructive; when there is war it appears to be destructive. The weapons science gives us do not necessarily cause war; they make war increasingly terrible. Till now, it has brought us to the door-step of doom. Our main problem, therefore, is not to curb science but to stop war - to substitute law for force, and international government for

nation with another. That is a job which everybody in must participate, including the scientists. But the bombing on Hiroshima suddenly woke us up to the fact that we have very little time. The hour is late and our work has scarcely begun. Now we are face-to-face with an urgent question-"Can education and tolerance. understanding and creative intelligence run fast enough to keep us abreast with our own mounting capacity to destroy ?" That is the question which we shall have to answer one way or the other in this generation. Science must help us in arriving at the answer, but the main decision lies within ourselves.

- **196.** According to the writer, the main problem we are faced with is to :
 - (a) Stop science from reflecting social forces.
 - (b) Stop scientific activities everywhere.
 - (c) Abolish war.
 - (d) Prevent scientists from participating in destructive activities.
- **197.** Our mounting capacity to destroy can be kept under control by :
 - (a) Encouraging social forces.
 - (b) Education and broad-mindedness.
 - (c) Insight and constructive thinking.
 - (d) Both (b) and (c)

anarchy in the helations of the 198.CW hen observer the oral foring

statements is 'not implied' in the passage?

- (a) People needlessly blame science for war.
- (b) Science is misused for destructive purposes.
- (c) Neither science nor the weapons it invents add to the horrors of war.
- (d) The role of science in ensuring world peace is subsidiary to that of man.
- **199.** According to the writer, the real enemy of mankind is not science but war, because :
 - (a) Science merely invents the weapons with which war is fought.
 - (b) Science during wars becomes destructive.
 - (c) The weapons that science invents necessarily lead to war.
 - (d) The weapons invented by science do not cause war, though these make it more destructive,
- 200. War can be stopped if :
 - (a) Science is not allowed to lead us to utter destruction.
 - (b) We replace force and lawlessness by law and international government.
 - (c) Science is restricted to be utilised only during war-time.
 - (d) Weapons invented by science are not used to launch a war.