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PART-C

- NUMERICAL APTITUDE 101. A reduction of 20% in the price of an apple (A) Rs. 1020.80 (B) Rs. 1025 enables a man to buy 10 apples more for Rs. (C) Rs. 1052 (D) Rs. 1050 54. The reduced price of apple per dozen is 107. Simple interest on a certain sum is $\frac{16}{25}$ of the (A) Rs. 4.32 (B) Rs. 12.96 (C) Rs. 10.80 (D) Rs. 14.40 sum. The rate per cent if the rate per cent 102. Price of a commodity has increased by 60%. and time (in years) are equal, is By what per cent must a consumer reduce (A) 6% (B) 8% the consumption of the commodity so as not (C) 10% (D) 12% to increase the expenditure? 108. If the difference between S.I. and C.I. for 2 (A) 37(B) 37.5 years on a sum of money lent at 5% is Rs. 6, (C) 40.5 (D) 60 then the sum is 103. The cost of an apple is twice that of a banana (A) Rs. 2200 (B) Rs. 2400 and the cost of a banana is 25% less than (C) Rs. 2600 (D) Rs. 2000 that of a guava. If the cost of each type of 109. A hemisphere and a cone have equal bases. fruit increase by 10%, then the percentage If their heights are also equal, the ratio of increase in cost of 4 bananas, 2 apples and their curved surface will be 3 guavas is (A) 10% (B) 12% (B) $\sqrt{2}:1$ (A) $1:\sqrt{2}$ (C) 16% (D) 18% (D) 2:1 (C) 1:2 104. Walking $\frac{6}{7}$ th of his usual sped, a man is 12 110. If $x = \frac{\sqrt{5}+1}{\sqrt{5}-1}$, then, the value of $5x^2 - 5x - 1$ is minutes too late. The usual time taken by (A) 0(B) 3 him to cover that distance is (C) 4 (D) 5 (A) 1 hour 111. When 2²³ is divided by 10, the remainder (B) 1 hour 12 minutes will be (C) 1 hour 15 minutes (D) 1 hour 20 minutes (A) 2 (B) 3 105. If I walk at 5 km/hour, I miss a train by 7 (C) 4 (D) 8 minutes. If, however, I walk at 6 km/hour, I reach the station 5 minutes before the departure of the train. The distance (in km) 112. The value of between my house and the station is (A) 6(B) 5
 - (C) 4 (D) 3
- 106. Rs. 800 becomes Rs. 956 in 3 years at a certain rate of simple interest. If the rate of interest is increased by 4%, what amount will Rs. 800 become in 3 years?

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113.	Find the unit digit in the product $(4387)^{245} \times (621)^{72}$ (A) 1 (B) 2			What is the least number which, when divided by 4, 6, 7, 8 gives the remainder 3 but is divisible by 9?			
114.	(C) 5 If $\sqrt{2} = 1.4142$ find	(D) 7	123.	(A) 1463 (C) 1683 Three num		(B) 1573 (D) 1793 in the ratio 3 : 4 : 5. T	'he
	$2\sqrt{2} + \sqrt{2} + \frac{1}{2 + \sqrt{2}} + \frac{1}{\sqrt{2}}$		sum of the largest and the smallest equals the sum of the second and 52. The smalles number is				
	(A) 1.4144 (B) 2.8284			(A) 20		(B) 27	
	(C) 28.284		104	(C) 39		(D) 52	0/
	(D) 2.4142	124.	If the radius of a circle is increased by 50%, its area is increased by				
115.	If $X * Y = Y^2 + Y^2 - X$	YY then 11 * 13 is		(A) 125%	iicieaseu	(B) 100%	
	(A) 117	(B) 147		(C) 75%		(D) 50%	
	(C) 290	(D) 433	125			parately can do a pie	ንር 6
116.	The value of $\frac{(3.2)^3}{(3.2)^3}$	$\frac{0^3 - 0.008}{0.64 + 0.04}$ is	120.	of work in work for a	on king separatery can do a piece and 12 days respectively. If the day alternately with a beginning rould be completed in		
	(A) 0	(B) 2.994		the work w	ould be c	ompleted in	
	(C) 3.208	(D) 3		(A) $10\frac{2}{3}$ da	ys	(B) $10\frac{1}{2}$ days	
117.	If $a^{\frac{1}{3}} = 11$, then the value of $a^2 - 33ia$ is			1		1	
	(A) 1331331 (C) 1334331	(B) 1331000		(C) $10\frac{1}{4}$ da	ays	(D) $10\frac{1}{3}$ days	
	(C) 1334331	(D) 1330030	126.	A and B tog	gether can	do a work in 10 days	. B
118.	If $\sqrt{a + \frac{x}{961}} = \frac{32}{31}$, then	n the value of x is	120.	and C toge days. A an	ther can d C toget	do the same work in ther can do the work	n 6 in
	(A) 63	(B) 61		-		and C together can	do
	(C) 65			the work ir		(D) 14 days	
119.	If a and b are odd n	umbers, then which of		(A) 28 days		(B) 14 days	
	the following is even? (A) $a + b + ab$ (B) $a + b - 1$			(C) $5\frac{5}{7}$ day	ys	(D) $8\frac{2}{7}$ days	
	(C) $a + b + 1$	(D) $a+b+2ab$	127.	A does ha	lf as muc	ch work as B in thre	ee-
120.	$2^{16} - 1$ is divisible by			fourth of the time. If together they take 18			
	(A) 11	(B) 13				work, how much tii	ne
	(C) 17	(D) 19		shall B take			
121.7	The HCF and LCM		(A) 30 days		(B) 35 days		
	and 924 respectivel such pairs is	y. Then the number of	190	(C) 40 days		(D) 45 days	ro
	(A) 0	140.	If a wire is bent into the shape of a square, then the area of the square so formed is				
	(A) 0 (C) 2	(B) 1 (D) 3				wire is rebent into	

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semicircular shape, then the area (in cm2) of

the semicircle will be (Take $\pi = \frac{2}{7}$)

- (A) 22
- (B) 44
- (C) 77
- (D) 154
- 129. Marbles a diameter 1.4 cm are dropped into a cylindrical beaker containing some water and are fully submerged. The diameter of the beaker is 7 cm. Find how many marbles have been dropped in it if the water rises by 5.6 cm.
 - (A) 50
- (B) 150
- (C) 250
- (D) 350
- 130. Water is flowing at the rate of 3km/hr through a circular pipe of 20 cm internal diameter into a circular cistern of diameter 10m and depth 2 m. In how much time will the cistern be filled?
 - (A) 1 hr
- (B) 1 hr 40 mins
- (C) 1 hr 20 mins
- (D) 2 hr s 40 mins
- 131. A bicycle wheel makes 5000 revolution in moving 11 km. The diameter of the wheel, in cm, is
 - (A) 35
- (B) 55
- (C) 65
- (D) 70
- 132. At each corner of a triangular field of sides 26 m, 28 m and 30 m, a cow is tethered by a rope of length 7 m. The area (in m^2) unglazed by the cows is
 - (A) 336
- (B) 259
- (C) 154
- (D) 77
- 133. A shopkeeper allows 23% commission on his advertised price and still makes a profit of 10%. If he gains Rs. 56 on one item, his advertised price of the item, in Rs. is
 - (A) 820
- (B) 780
- (C) 790
- (D) 800

- 134. The single discount equal to three consecutive discounts of 10%, 12% and 5% is
 - (A) 26.27%
- (B) 24.76%
- (C) 9%
- (D) 11%
- 135. If x : y = 5 : 6, then $(3x^2 2y^2) : (y^2 x^2)$ is
 - (A) 7:6
- (B) 11:3
- (C) 3:11
- (D) 6:7
- 136. An alloy contains copper, zinc and nickel in the ratio of 5:3:2. The quantity of nickel in kg that must be added to 100 kg of this alloy to have the new ratio 5:2:3, is
 - (A) 8
- (B) 10
- (C) 12
- (D) 15
- 137. The ratio of the ages of Ram and Rahim 10 years ago was 1 : 3. The ratio of the their ages five years hence will be 2 : 3. Then the ratio of the their present ages is
 - (A) 1:2
- (B) 3:5
- (C) 3:4
- (D) 2:5
- 138. The incomes of A, B and C are in the ratio 7:9:12 and their spending are in the ratio 8
 - : 9:15. If A saves $\frac{1}{4}$ th of his income, then the

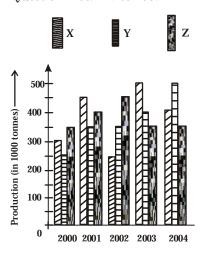
saving of A, B and C are in the ratio of

- (A) 69:56:48
- (B) 47:74:99
- (C) 37:72:49
- (D) 56:99:69
- 139. Out of 4 numbers, whose average is 60, the first one is one-fourth of the sum of the last three. The first number is
 - (A) 15
- (B) 45
- (C) 48
- (D) 60
- 140. The average of 25 observations is 13. It was later found that an observation 73 was wrongly entered as 48. The new average is
 - (A) 12.6
- (B) 14
- (C) 15
- (D) 13.8

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- 141. If the cost price of 10 articles is equal to the selling price of 8 articles, then gain per cent is
 - (A) 10%
- (B) 8%
- (C) 50%
- (D) 25%
- 142. An article is marked 40% above the cost price and discount of 30% is allowed. What is the gain or loss percentage?
 - (A) 10 % gain
 - (B) 5% gain
 - (C) 2% loss
 - (D) 12% loss
- 143. A main bought oranges at the rate of 8 for Rs. 34 and sold them at the rate of 12 for Rs. 57. How many oranges should be sold to earn a net profit or Rs. 45?
 - (A) 90
- (B) 100
- (C) 135
- (D) 150
- 144. A man sells two articles for Rs. 5000 each neither losing nor gaining in the deal. If he sold of them at a gain of 25%, the other article is sold at a loss of
 - (A) $15\frac{2}{3}\%$
 - (B) $16\frac{2}{3}\%$
 - (C) $17\frac{1}{3}\%$
- (D) $18\frac{1}{3}\%$
- 145. By selling an article for Rs. 144, a person gained such that the percentage gain equals the cost price of the article. The cost price of the article is
 - (A) Rs. 90
- (B) Rs. 80
- (C) Rs. 75
- (D) Rs. 60
- 146. The average age of 11 players of a cricket team is increased by 2 months when two of them aged 18 years and 20 years are replaced by two new players. The average age of the new players is
 - (A) 19 years 1 month
 - (B) 19 years 6 month
 - (C) 19 years 11 month
 - (D) 19 years 5 month

The following graph shows the production of wheat flour (in 1000 tonnes) by three companies X, Y and Z over the years. Study the graph and answer Question Nos. 147 to 150.



Years→

- 147. What is the different between the production of company Z in 2004 and company Y in 2000 (in thousand tonnes)?
 - (A) 2000
- (B) 200
- (C) 20
- (D) 100
- 148. What is the ratio of the average production of Company X in the period 2002-2004 to the average production of company Y in the same period?
 - (A) 1:1
- (B) 15:17
- (C) 23:25
- (D) 27:29
- 149. What is the percentage increase in the production of company Y from 2002 to 2003?
 - (A) $14\frac{2}{7}$
- (B) $16\frac{6}{7}$
- (C) 25
- (D) 40
- 150. The average production for five years was maximum for which company?
 - (A) X and Z both
- (B) Y
- (C) Z
- (D) X and Y both

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ANSWER SHEET

101.	(b)	102.	(b)	103.	(a)	104. (b)	105 (a)	106 (c)	107 (b)	108 (b)	109 (b)	110 (c)
111	(a)	112	(b)	113	(d)	114 (b)	115 (b)	116 (d)	117 (b)	118 (a)	119 (d)	120 (c)
121	(c)	122	(c)	123	(c)	124 (c)	125 (c)	126 (c)	127 (a)	128 (c)	129 (b)	130 (b)
131	(d)	132	(b)	133	(d)	134 (b)	135 (c)	136 (b)	137 (b)	138 (d)	139 (c)	140 (b)
141	(d)	142	(c)	143	(a)	144 (b)	145 (b)	146 (c)	147 (d)	148 (c)	149 (a)	150 (a)

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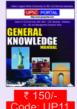


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