

PART—C

NUMERICAL APTITUDE

101. X sells to articles for Rs. 4,000 each with no loss and no gain in the transaction. If one was sold at a gain of 25% the other is sold at a loss of
- (A) 25% (B) $18\frac{2}{9}\%$
 (C) $16\frac{2}{3}\%$ (D) 20%
102. 20% loss on selling price is what percent loss on the cost price?
- (A) 25% (B) 15%
 (C) $16\frac{2}{3}\%$ (D) $16\frac{1}{3}\%$
103. If 90% of A = 30% of B and B = x% of A, then the value of x is
- (A) 800 (B) 300
 (C) 700 (D) 100
104. A reduction of 20% in the price of sugar enables me to purchase 5 kg more for Rs. 600. Find the price of sugar per kg before reduction of price?
- (A) Rs. 24 (B) Rs. 30
 (C) Rs. 32 (D) Rs. 36
105. The price of commodity rises from Rs. 6 per kg to Rs. 7.50 per kg. If the expenditure cannot increase, the percentage of reduction in consumption is
- (A) 15 (B) 20
 (C) 25 (D) 30
106. First and second numbers are less than a third number by 30% and 37% respectively. The second number is less than the first by
- (A) 7% (B) 4%
 (C) 3% (D) 10%
107. Waling at $\frac{6}{7}$ of his usual speed a man is 2.5 minutes too late. His usual time to cover this distance is
- (A) 2 hours 30 minutes
 (B) 2 hours 15 minutes
 (C) 2 hours 25 minutes
 (D) 2 hours 10 minutes
108. Walking at 5 km/hr a student reaches his school from his house 15 minutes early and walking at 3 km/hr he is late by 9 minutes. What is the distance between his school and his house?
- (A) 5 km (B) 8 km
 (C) 3 km (D) 2 km
109. A sum of Rs. 12,000 deposited at compound interest becomes double after 5 years. After 20 years, it will become
- (A) Rs. 48,000
 (B) Rs. 96,000
 (C) Rs. 1,90,000 (D) Rs. 1,92,000
110. Simple interest on a certain sum for 6 years is $\frac{9}{25}$ of the sum. The rate of interest is
- (A) 6% (B) $6\frac{1}{2}\%$
 (C) 8% (D) $8\frac{1}{2}\%$
111. The difference between the compound interest and simple interest for the amount Rs. 5,000 in 2 years is Rs. 32. The rate of interest is
- (A) 5% (B) 8%
 (C) 10% (D) 12%
112. The least number, which is to be added to the greater number of 4 digits so that the sum may be divisible by 345, is
- (A) 50 (B) 6
 (C) 60 (D) 5

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113. If $\frac{4\sqrt{3}+5\sqrt{2}}{\sqrt{48}+\sqrt{18}} = a + b\sqrt{6}$, then the values of a and b are respectively
 (A) $\frac{9}{15}, \frac{4}{15}$ (B) $\frac{3}{11}, \frac{4}{33}$
 (C) $\frac{9}{10}, \frac{2}{5}$ (D) $\frac{3}{5}, \frac{4}{11}$
114. If 17^{200} is divided by 18, the remainder is
 (A) 1 (B) 2
 (C) 16 (D) 17
115. If $x + \frac{2}{3 + \frac{4}{5 + \frac{7}{6}}} = 10$, the value of x is
 (A) $\frac{1276}{135}$ (B) $\frac{53}{6}$
 (C) 4.35 (D) 9
116. The unit digit in the sum of $(124)^{372} + (124)^{373}$ is
 (A) 5 (B) 4
 (C) 2 (D) 0
117. The value of $3 + \frac{1}{\sqrt{3}} + \frac{1}{3+\sqrt{3}} + \frac{1}{\sqrt{3}-3}$ is
 (A) $3+\sqrt{3}$ (B) 3
 (C) 1 (D) 0
118. If $a * b = a^b$, the value of $5 * 3$ is
 (A) 125 (B) 243
 (C) 53 (D) 15
119. If $-1 - 5x = .04y$, then the value of $\frac{y^2-x^2}{y^2+2xy+x^2}$ is
 (A) $\frac{730}{77}$ (B) $\frac{73}{77}$
 (C) $\frac{73}{770}$ (D) $\frac{74}{77}$
120. If $\sqrt{0.03 \times 0.3 \times a} = 0.3 \times 0.3 \times \sqrt{b}$ value of $\frac{a}{b}$ is
 (A) 0.009 (B) 0.03
 (C) 0.09 (D) 0.08
121. If $\sqrt{a + \frac{x}{9}} = \frac{13}{3}$, then the value of x is
 (A) $\frac{1439}{9}$ (B) 160
 (C) $\frac{1443}{9}$ (D) 169
122. The sum of two numbers is 24 and their product is 143. The sum of their squares is
 (A) 296 (B) 295
 (C) 290 (D) 228
123. Which one of the following will completely divide $5^{71} + 5^{72} + 5^{73}$
 (A) 150 (B) 160
 (C) 155 (D) 30
124. L.C.M. of two number is 120 and their H.C.F. is 10. Which of the following can be the sum of those two numbers?
 (A) 140 (B) 80
 (C) 60 (D) 70
125. When 'n' is divided by 5 the remainder is 2. What is the remainder when n^2 is divide by 5?
 (A) 2 (B) 3
 (C) 1 (D) 4
126. A student was asked to divide a number by 6 and 12 the quotient. He, however, first added 12 to the number and then divided it by 6, getting 112 as the answer. The correct answer should have been
 (A) 124 (B) 122
 (C) 118 (D) 114
127. Four runners started running simultaneously from a point on a circular track. They took 200 sec, 300 sec, 360 sec and 450 sec to complete one round. After

- how much time do they meet at the starting point for the first time?
 (A) 1800 seconds
 (B) 3600 seconds
 (C) 2400 seconds
 (D) 4800 seconds
128. 'x' number of men can finish a piece of work in 30 days. If there were 6 men more, the work could be finished in 10 days less. The original number of men is
 (A) 6 (B) 10
 (C) 12 (D) 15
129. A work can be completed by P and Q in 12 days, Q and R in 15 days, R and P in 20 days. In how many days P alone can finish the work?
 (A) 10 (B) 20
 (C) 30 (D) 60
130. In which of the following banks, there was a continued increase in loan disbursement throughout the years?
 (a) A (b) B
 (c) C (d) D
131. In which bank was the loan disbursement more than 30% of the disbursement of all banks combined together in 1998?
 (a) A (b) B
 (c) C (d) D
132. The average monthly income of A and B is Rs. 14000, that of B and C is Rs. 15600 and A and C is Rs. 14400. The monthly income of C is
 (a) Rs. 16000 (b) Rs. 15000
 (c) Rs. 14000 (d) Rs. 15500
133. The average of first three numbers is thrice the fourth number. If the average of all the four numbers is 5, then find the fourth number.
 (a) 4.5 (b) 5 (c) 2 (d) 4
134. The average age of eleven players of a cricket team decreases by 2 months when two new players are included in the team replacing two players of ages 17 years and 20 years. The average age of new players is
 (a) 17 years 1 month
 (b) 17 years 7 months
 (c) 17 years 11 months
 (d) 18 years 3 months
135. If $\frac{2a-5b}{3a+6b} = \frac{4}{7}$ then $a : b$ is equal to
 (a) 21 : 36
 (b) 2 : 59
 (c) 59 : 2
 (d) 36 : 21
136. The sum of three consecutive numbers is 87. The middle number is
 (a) 27 (b) 29 (c) 30 (d) 28
137. If $A : B = 3 : 4$, $B : C = 5 : 7$ and $C : D = 8 : 9$ then $A : D$ is equal to
 (a) 3 : 7 (b) 7 : 3
 (c) 21 : 10 (d) 10 : 21
138. The ratio of two numbers is 10 : 7 and their difference is 105. The sum of these numbers is
 (a) 595 (b) 805
 (c) 1190 (d) 1610
139. The ratio of the quantities of an acid and water in a mixture is 1 : 3. If 5 liters of acid further added to the mixture, the new ratio becomes 1 : 2. The quantity of new mixture in liters is
 (A) 32 (B) 40
 (C) 42 (D) 45
140. The ratio between two number is 2 : 3. If each number is increased by 4, the ratio between them becomes 5 : 7. The difference between the numbers is
 (A) 8 (B) 6
 (C) 4 (D) 2
141. Monthly incomes of A and B are in the ratio of 4 : 3 and their expenses bear the ratio 3 : 2. Each of them saves Rs. 6,000 at the end of the month, then the monthly income of A is
 (A) Rs. 12,000 (B) Rs. 24,000
 (C) Rs. 30,000 (D) Rs. 60,000

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142. The average of three consecutive, odd numbers is 12 more than one third of the first of these numbers. What is the last of the three numbers?

- (A) 15
- (B) 17
- (C) 19
- (D) Data inadequate

143. The average of 18 observations is recorded as 124. Later it was found that two observations with values 64 and 28 were centered wrongly as 46 and 82. Find the correct average of the 18 observation

- (A) $111\frac{7}{9}$
- (B) 122
- (C) 123
- (D) $137\frac{3}{9}$

144. If the cost price of 15 articles is equal to the selling price of 12 articles, find gain %

- (A) 20
- (B) 25
- (C) 18
- (D) 21

145. The cost price of an article is 64% of the marked price. The gain percentage after allowing a discount of 12% on the marked price is

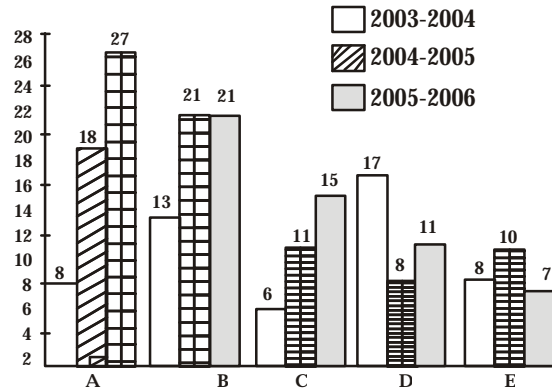
- (A) 37.5%
- (B) 48%
- (C) 50.5%
- (D) 52%

146. A man purchased some eggs at 3 for Rs. 5 and sold them at 5 for Rs. 12. Thus he gained Rs. 143 in all. The number of eggs he bought is

- (A) 210
- (B) 200
- (C) 195
- (D) 190

The following graph shows the production of cotton bales of 100 kg each in lakhs by different

states A, B, C, D and E over the years. Study the graph and answer Questions Nos. 147 to 150.



147. The production of State C in 2003-2004 is how many times its production in 2005-2006.

- (A) 2.5
- (B) 1.85
- (C) 1.5
- (D) 0.4

148. In which State(s) is there a steady increase in the production of cotton during the given period?

- (A) A and B
- (B) B and D
- (C) A and C
- (D) D and E

149. How many kg of cotton was produced by State C during the given period?

- (A) 32,00,00,000 kg
- (B) 42,50,00,000 kg
- (C) 33,00,00,000 kg
- (D) 35,00,00,000 kg

150. The number of State for which the production of cotton in 2005-2006 is less than or equal to the preceding year is

- (A) 3
- (B) 2
- (C) 1
- (D) There is no such State

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147. The HCF of two numbers is 11 and their L.C.M. is 7700. If one of the numbers is 275, then the order is
(A) 279 (B) 283
(C) 308 (D) 318
148. Radius of cylinder is twice that of a conc. Height of cone is twice that of the cylinder. Ratio of the volume of cylinder to that of the cone is
(A) 3 : 4 (B) 1 : 3
(C) 6 : 1 (D) 1 : 6
149. P and Q share profits in the ratio 5 : 3, P surrenders $\frac{1}{5}$ of his share and Q, $\frac{1}{3}$ of his share in favour of R – a new partner. The new profit sharing ratio of P, Q and R is
(A) 1 : 1 : 1 (B) 1 : 2 : 1
(C) 2 : 1 : 1 (D) 1 : 1 : 2
150. A man walks 2000 m in 30 minutes, 1500m in 40 minutes and 500 m in 10 minutes. Then his average speed for the whole journey in m/min. is
(A) 50 (B) 60.5
(C) 55 (D) 51.5

ANSWER SHEET

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

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