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SSC HIGHER SECONDARY DATA ENTRY OPERATOR & LDC EXAM NUMERICAL APTITUDE SOLVED QUESTION PAPER-2010



NUMERICAL APTITUDE

- 101. A sailor goes 12 km downstream in 48 minutes and returns in 1 hour 20 minutes. The speed of the sailor in still water is :
 - (1) 12 km/hr (2) 12.5 km/hr
 - (3) 13 km/hr (4) 15 km/hr
- 102. If 24-carat gold is considered to be hundred per cent pure gold, then the percentage of pure gold in 22-carat gold is:
- (3) $91\frac{1}{3}$
- 103. If $x + \frac{1}{x} = 3$, then the value of

- (1) $\frac{1}{16}$
- (4) 16
- 105. The price of sugar is increased by 25%. If a family wants to keep its expenses on sugar unaltered, then the family will have to re-duce the consumption of sugar by:
 - (1) 20%
- (2) 21%
- (3) 22%
- (4) 25%
- 06. A sum of money amounts to ₹ 850 in 3 years and to 7925 in 4 years at some rate of simple interest. The sum is:
 - (1) ₹ 550
- (2) ₹ 600
 - (3) ₹ 625
- (4) ₹ 700

- 107. Pipe A can fill a cistern in 6 hours and pipe B can fill it in 8 hours. Both the pipes are opened simultaneously, but after two hours, pipe A is closed. How many hours will B take to fill the remaining part of the cistern?
- (3) $2\frac{2}{3}$
- (4) 4
- 108. The sides of a triangle are in the
 - ratio $\frac{1}{3}$: $\frac{1}{4}$: $\frac{1}{5}$ and its perimeter is 94cm. The length of the smallest side of the triangle is:
 - (1) 18 cm
- (2) 22.5 cm
- (3) 24 cm
- (4) 27 cm
- 109. The average of seven consecutive positive integers is 26. The smallest of these integers is:
 - (1) 21(3) 25
- (2)23
- (4)26
- 110. Due to an increase of 50% in the price of eggs, 4 eggs less are available for ₹ 24. The present rate of eggs per dozen is '
 - (I) + 24 (2) ₹ 27
 - (3) + 36
- (4) × 42
- 111. Next number of the sequence
 - 2, 9, 28, 65, 126, ____ is: (2)199
 - (1)195
 - (3) 208
 - (4)217
- 112. If A's income is 20% more than that of B, by how much percent is B's income less than that of A?
- (3) $16\frac{2}{3}$
- (4) $16\frac{2}{7}$
- 113. X alone can complete a piece of work in 40 days. He worked for 8 days and left. Y alone completed the remaining work in 16 days. How long would X and Y together take to complete the
 - (1) 13 1/2 days (2) 14 days
 - (3) 15 days (4) $16\frac{2}{3}$ days

- 114. Which of the following successive discount series is the best of all for a customer?
 - (1) 30%, 20%, 10%
 - (2) 25%, 20%, 15%
 - (3) 30%, 10%, 15%
 - (4) 25%, 15%, 10%
- 115. What price should a shopkeeper mark on an article costing him v 200 to gain 35% after allowing a discount of 25%?
 - (1) = 270 (2) ₹ 300
 - (3) 🕈 330 (4) ₹ 360
- 116. Total weekly emoluments of the workers of a factory is ₹ 1534. Average weekly emolument of a worker is 7 118. The number of workers in the factory is :
 - (1) 16 (2) 14
 - (3) 13 (4)12
- 117. The length and breadth of a rectangle are increased by 20% and 25% respectively. The increase in the area of the resulting rectangle will be:
 - (1) 60%
 - (2) 50% (3) 40% (4) 30%
- 118. A train travelling with uniform speed crosses two bridges of lengths 300 m and 240 m in 21 seconds and 18 seconds respectively. The speed of the train is :
 - (1) 72 km/hr (2) 68 km/hr
 - km/hr (4) 60 km/hr



- 119. The wrong (misfit) number of the sequence 5, 15, 45, 135, 395, 1215, 3645 is:

(1) 395 (2) 135

- **120.** If $A = \frac{1}{4} B$ and $B = \frac{1}{2} C$, then A

(1)8:4:1 (2)4:2:1

(3) 1:4:8 (4) 1:2:4

121. A 7 m wide road runs outside around a circular park, whose circumference is 176 m. The area of the road is:

[use
$$\pi = \frac{22}{7}$$
]

- (1) 1386 m² (2) 1472 m²
- (3) 1512 m² (4) 1760 m²
- 122. If the cost price and selling price of an article are in the ratio 10: 11, then the percentage of profit is:

(2)9

- (1) 10
- (3)3(4) 1
- 123. A shopkeeper sells his goods at 15% discount. The marked price of an article whose selling price is ₹ 629 is:
 - (1) ₹ 740 (2) ₹ 704 (3) ₹ 700 (4) ₹ 614
- 124. Present population of a village is 67600. It has been increasing annually at the rate fo 4%. What was the population of the village
 - two years ago? (1) 62500 (2) 63000
 - (3) 64756 (4) 65200
- 125. The average age of A and B is 30 years and that of B and C is 26 years. The difference of the age of A and B is:
 - (1) 2 years (2) 4 years
 - (3) 6 years (4) 8 years
- 126. Twenty women tohether can complete a work in 16 days. 16 men together can complete the same work in 15 days. The ratio of the working capacity of a man to that of a woman is:
 - (1) 3:4 (2)4:3
 - (3) 5:3 (4)4:5
- 127. If $a + \frac{1}{2} + 1 = 0$ (a $\neq 0$) then the value of (a4 - a) is:

(1) 0

(2) 1

- (3) 2
- (4) 1
- 128. If the height of a cone is increased by 100% then its volume is increased by :
 - (1) 100%

(2) 200%

- (3) 300%
- (4) 400%
- 129. If x is a perfect square integer such that 7 < (2x - 3) < 17, then the value of x is:
 - (1) 25

(2) 16

- (3) 9
- (4) 4
- 130. The difference between the simple interests received from two different banks on 7 500 for 2 years is ₹ 2.50. The difference between their per annum rates of interest is:
 - (1) 0.10%

(2)0.25%

- (3) 0.50%
- (4) 1.00%
- 131. 999 998 999 ×999 is equal to:
 - (1) 998999

(2)999899

- (3) 989999
- (4) 999989
- 132. The cost price of 24 apples is the same as the selling price of 18 apples. The percentage of gain

- 133. A merchant sold an article for * 75 at a profit percent equal to his cost price. The cost price of the article was:
 - (1) ₹ 45

(2) ₹ 50

- (3) 7 54
- (4) ₹ 60
- 134. The largest among the numbers 0.9, $(0.9)^2$, $\sqrt{0.9}$, 0.9 is:
 - (1) 0.9

 $(2)(0.9)^2$

- (3) $\sqrt{0.9}$
- (4) 0.9
- 135. The rain water from a roof 22 m × 20 m drains into a cylindrical vessel having a diameter of 2 m and height 3.5 m. If the vessel is just full. then the rainfall in cm
 - (1) 2
- (2)2.5

- 136. If the difference between the selling prices of an article at profit of 6% and 4% is 7 3, then the cost price of the article should
 - (1) +100 (2) ₹150
 - (3) + 175(4) ₹200
- **137.** If n is an integer, then $(n^3 n)$ is always divisible by :
 - (1) 4

(2)5

- (3)6
- (4)7
- 138. A sum of money was lent at simple interest at a certain rate for 3 years. Had it been lent at 2.5% per annum higher rate, it would have fetched # 540 more. The money lent was :
 - (1) # 6400 (2) ₹ 6472
 - $(3) \neq 6840$ (4) ₹ 7200
- 139. What number should be added to each of 6, 14, 18 and 38 so that the resulting numbers make a proportion?
 - (1) 1
- (2)2
- (3) 3(4)4
- 140.
- $0.08 \times 0.08 \times 0.08 + 0.02 \times 0.02 \times 0.02$ $0.08 \times 0.08 - 0.0016 + 0.02 \times 0.02$
 - simplified to: (1) 0.001 (2)0.1
 - (4) 0.016 (3) 0.0016
- 141. If $x = \sqrt{3} + \sqrt{2}$, then the value of

$$\left(x^2 + \frac{1}{x^2}\right)$$
 is:

- (3)9(4)10
- 142. The ratio of the number of boys and girls in a school is 3:2. If 20% of the boys and 25% of the girls are scholarship holders. then the percentage of the students, who do not get the scholarship, is:
 - (1)78
- (2)75
- (3)60
- (4)55
- 143. The HCF of two numbers is 15 and their LCM is 225. If one of the numbers is 75, then the other is:
 - (1) 105
- (2) 90
- (4) 45

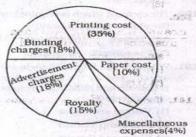


- 144. While finding the average of 10 given numbers, a student, by mistake, wrote 64 in place of a number 46 and got his correct average 50. The correct average of the given numbers is:

 (1) 48.2 (2) 48.3
- (3) 49.1 (4) 49.3

 145. In a mixture of 60 litres, the ratio of milk and water is 2:1. How much more water must be added to make its ratio 1:2?
 - (1) 40 litres (2) 52 litres (3) 54 litres (4) 60 litres
- 146. The area of an equilateral triangle is 4√3 cm². The length of each side of the triangle is:
 - (1) 3 cm (2) 2√2 cm'
 - (3) 2√3 cm (4) 4 cm (8)

The pie-chart, given here, shows various expenses of a publisher in the production and sale of a book. Study the chart and answer questions based on it.



- 147. If the printing cost is ₹ 17,500, the 'Royalty' paid is:
 - (1) ₹8,750 (2) ₹7,500 (3) ₹6,300 (4) ₹3,130
- 148. The measure of central angle for the section 'printing cost' is:
 - (1) 126° (2) 70°
 - (3) 63° (4) 35°
- 149. Miscellaneous expenses are what percent of paper cost ?
 - (1) 4 (2) 10 (3) 40 (4) 44
- 150. The difference between the measures of central angles of sectors for binding charges and advertisement charges is:
 - (1) 180° (2) 90°
 - (3) 18° (4) 0°



Answer: Numerical Aptitude

101	1
102	2
103	3
104	1
105	1
106	3
107	
108	3
109	2
110	3
111	4
112	3
113	1
114	1
115	4
116	3
117	2
118	1
119	1
120	3
121	1
122	1
123	1
124	1
125	4

126 2 127 1 128 1 129 3 130 2 131 1 132 4 133 2 134 4 135 2 136 4 137 3 138 4 139 2 140 2 141 4 142 1 143 4 144 1 145 4 147 2 148 1 149 3 150 4		
128 1 129 3 130 2 131 1 132 4 133 2 134 4 135 2 136 4 137 3 138 4 139 2 140 2 141 4 142 1 143 4 144 1 145 4 146 4 147 2 148 1 149 3	126	2
129 3 130 2 131 1 132 4 133 2 134 4 135 2 136 4 137 3 138 4 139 2 140 2 141 4 142 1 143 4 144 1 145 4 146 4 147 2 148 1 149 3	127	1
130 2 131 1 132 4 133 2 134 4 135 2 136 4 137 3 138 4 139 2 140 2 141 4 142 1 143 4 144 1 145 4 146 4 147 2 148 1 149 3	128	1
131 1 132 4 133 2 134 4 135 2 136 4 137 3 138 4 139 2 140 2 141 4 142 1 143 4 144 1 145 4 146 4 147 2 148 1 149 3	129	3
132 4 133 2 134 4 135 2 136 4 137 3 138 4 139 2 140 2 141 4 142 1 143 4 144 1 145 4 146 4 147 2 148 1 149 3	130	2
133 2 134 4 135 2 136 4 137 3 138 4 139 2 140 2 141 4 142 1 143 4 144 1 145 4 146 4 147 2 148 1 149 3	131	1
134 4 135 2 136 4 137 3 138 4 139 2 140 2 141 4 142 1 143 4 144 1 145 4 146 4 147 2 148 1 149 3	132	4
135 2 136 4 137 3 138 4 139 2 140 2 141 4 142 1 143 4 144 1 145 4 146 4 147 2 148 1 149 3	133	2
136 4 137 3 138 4 139 2 140 2 141 4 142 1 143 4 144 1 145 4 146 4 147 2 148 1 149 3	134	4
137 3 138 4 139 2 140 2 141 4 142 1 143 4 144 1 145 4 146 4 147 2 148 1 149 3	135	2
138 4 139 2 140 2 141 4 142 1 143 4 144 1 145 4 146 4 147 2 148 1 149 3	136	4
139 2 140 2 141 4 142 1 143 4 144 1 145 4 146 4 147 2 148 1 149 3	137	3
140 2 141 4 142 1 143 4 144 1 145 4 146 4 147 2 148 1 149 3	138	4
141 4 142 1 143 4 144 1 145 4 146 4 147 2 148 1 149 3	139	2
142 1 143 4 144 1 145 4 146 4 147 2 148 1 149 3	140	2
143 4 144 1 145 4 146 4 147 2 148 1 149 3	141	4
144 1 145 4 146 4 147 2 148 1 149 3	142	1
145 4 146 4 147 2 148 1 149 3	143	4
146 4 147 2 148 1 149 3	144	1
147 2 148 1 149 3	145	4
148 1 149 3	146	4
149 3	147	2
	148	1
150 4	149	3
	150	4