

UP SI MOCK TEST - 56 (SOLUTION)

81. (C) M.R.P = 720, two successive Discount = 259.20

$$\text{Discount} = \frac{259.20}{720} \times 100 = 36\%$$

Two successive Discount

$$= -20 - 20 + \frac{20 \times 20}{100}$$

$$= -40\% + 4\% = -36\%$$

Two successive discount = 20%

82. (B) Let side of the original cube be ' a '.
- ATQ.,

Volume of the cube = a^3

$$\Rightarrow a = \sqrt[3]{13824} \Rightarrow a = 24 \text{ cm}$$

Now, Let side of the smaller cube be ' a_1 '

Volume of the smaller cube = a_1^3

$$\Rightarrow 8a^3 = 13824$$

$$\Rightarrow a_1 = \sqrt[3]{1728} \Rightarrow a_1 = 12 \text{ cm}$$

The ratio of the surface area of the original cube to the sum of the surface area of the three of the smaller cube

$$= \frac{6a^2}{3(6a_1^2)} = \frac{6 \times 24 \times 24}{3(6) \times 12 \times 12} = \frac{4}{3}$$

$$= 4 : 3$$

83. (A) Let CP = 100 units

CP	SP
100 units	$\xrightarrow{15\% \text{ loss}} 85 \text{ units}$
100 units	$\xrightarrow{9\% \text{ gain}} 109 \text{ units}$

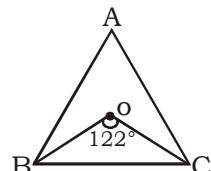
Diff. 24 units

24 units \longrightarrow ₹30.60

For 10% profit

$$110 \text{ units} \longrightarrow \frac{30.60}{24} \times 110 \\ = ₹140.25$$

84. (A)



By theorem,

$$\angle BOC = 90^\circ + \frac{\angle A}{2} \quad (\text{By property})$$

$$\Rightarrow 122^\circ - 90^\circ = \frac{\angle A}{2} \Rightarrow \angle A = 64^\circ$$

85. (D) $x^4 + x^{-4} = 194$

$$\Rightarrow x^4 + \frac{1}{x^4} = 194$$

$$\Rightarrow \left(x^2 + \frac{1}{x^2}\right)^2 - 2x^2 \cdot \frac{1}{x^2} = 194$$

$$\Rightarrow x^2 + \frac{1}{x^2} = \sqrt{196} = 14$$

$$\Rightarrow \left(x + \frac{1}{x}\right)^2 - 2 = 14 \Rightarrow x + \frac{1}{x} = 4$$

$$\Rightarrow \frac{x^2 + 1}{x} = 4 \Rightarrow x^2 - 4x + 1 = 0$$

$$\Rightarrow x^2 - 4x + 1 + 3 = 0 + 3$$

$$\Rightarrow (x - 2)^2 = 3$$

86. (B) $4 - 2 \sin^2 \theta - 5 \cos \theta = 0$

$$\Rightarrow 4 - 2(1 - \cos^2 \theta) - 5 \cos \theta = 0$$

$$\Rightarrow 4 - 2 + 2 \cos^2 \theta - 5 \cos \theta = 0$$

$$\Rightarrow 2 \cos^2 \theta - 5 \cos \theta + 2 = 0$$

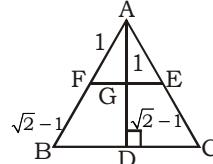
$$\Rightarrow (2 \cos \theta - 1)(\cos \theta - 2) = 0$$

$$\Rightarrow \cos \theta = \frac{1}{2} \Rightarrow \theta = 60^\circ$$

Then, $\sin 60^\circ + \tan 60^\circ$

$$\Rightarrow \frac{\sqrt{3}}{2} + \sqrt{3} = \frac{3\sqrt{3}}{2}$$

87. (B)



ΔABC and ΔAFE are similar,

$$\text{then } \frac{ar(\Delta AEF)}{ar(\Delta ABC)} = \left(\frac{AG}{AD}\right)^2$$

$$\Rightarrow \frac{1}{2} = \left(\frac{AG}{AD}\right)^2 \Rightarrow \frac{AG}{AD} = \frac{1}{\sqrt{2}}$$

Now, $GD = AD - AG$

$$\Rightarrow GD = \sqrt{2} - 1$$

$$\Rightarrow \frac{GD}{AG} = \frac{\sqrt{2} - 1}{1}$$

Hence, $GD : AG = (\sqrt{2} - 1) : 1$

88. (B) Let the number = x

ATQ,

$$x + \frac{1}{x} = 2$$

$$\therefore x = 1$$

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89. (B) Average Salary

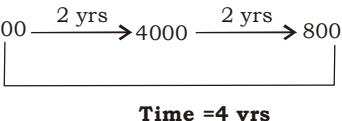
$$= 16000 + \frac{(20,000 - 16,000)}{20}$$

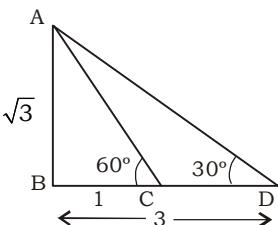
$$= 16000 + \frac{4000}{20} = ₹ 16200$$

90. (A) A.T.Q.,

Putting $x = 2$ and $y = 1$ then, it is divisible by 72.

$$\text{Hence, } 4x - 3y = 4 \times 2 - 1 \times 3 \\ = 5$$

91. (B) 

92. (A) 

A.T.Q.,

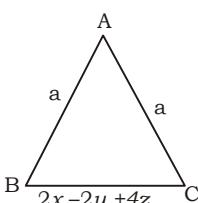
$$\sqrt{3} \text{ units} = 1500 \text{ m}$$

$$(3 - 1) = 2 \text{ units} = \frac{1500}{\sqrt{3}} \times 2 \\ = 1000\sqrt{3}$$

\therefore The distance between ships
 $= 1000\sqrt{3} \text{ m}$

93. (A) Present age of baby

$$= (17 \times 6) - (17 \times 5 + 15) \\ = 102 - 100 \\ = 2 \text{ yrs.}$$

94. (D) 

ATQ,

$$\Rightarrow a + a + 2x - 2y + 4z = 4x - 2y + 6z \\ \Rightarrow 2a = 4x - 2y + 6z - 2x + 2y - 4z \\ \Rightarrow 2a = 2x + 2z \\ \Rightarrow a = x + z$$

95. (B) $\frac{1}{x} + \frac{1}{y} + \frac{1}{z} = 1$

$$\Rightarrow \frac{xy + yz + zx}{xyz} = 1$$

$$\Rightarrow xy + yz + zx = xyz$$

$$\Rightarrow xy + yz + zx = -1 [\because xyz = -1]$$

$$x + y + z = 1$$

Squaring both sides,

$$\Rightarrow x^2 + y^2 + z^2 + 2(xy + yz + zx) = 1$$

$$\Rightarrow x^2 + y^2 + z^2 = 1 + 2 = 3$$

$$\text{Now, } x^3 + y^3 + z^3 - 3xyz = (x + y + z)[x^2 + y^2 + z^2 - (xy + yz + zx)]$$

$$\Rightarrow x^3 + y^3 + z^3 + 3 = 1 (3 + 1)$$

$$\Rightarrow x^3 + y^3 + z^3 = 4 - 3 = 1$$

96. (C) New Speed = $\frac{60 \times 15}{12} = 75 \text{ km/hr}$

97. (C) Let M.P. = 100

$$\text{then, S.P.} = 100 \times \frac{85}{100} \times \frac{85}{100} \times \frac{75}{100} \\ = 51$$

$$\therefore \text{Equivalent discount} = 100 - 51 \\ = 49\%$$

98. (A) $x = \sqrt{a} + \frac{1}{\sqrt{a}}$

$$\Rightarrow x^2 = a + \frac{1}{a} + 2$$

$$y = \sqrt{a} - \frac{1}{\sqrt{a}}$$

$$\Rightarrow y^2 = a + \frac{1}{a} - 2$$

$$x^2 - y^2 = 4$$

$$\Rightarrow (x^2 - y^2)^2 = 16$$

$$\Rightarrow x^4 + y^4 - 2x^2y^2 = 16$$

99. (B) $\tan(5x - 10^\circ) = \cot(5y + 20^\circ)$

$$\Rightarrow \tan(5x - 10^\circ) = \tan(90^\circ - 5y - 20^\circ)$$

$$\Rightarrow 5x - 10^\circ = 90^\circ - 5y - 20^\circ$$

$$\Rightarrow 5x + 5y = 80^\circ$$

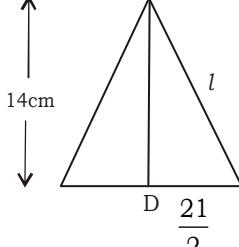
$$\Rightarrow x + y = 16^\circ$$

100. (C)

A	:	B
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$$\begin{array}{rcl} \text{Efficiency} & 2 & : \\ \text{Time} & 3 & : \end{array}$$

$$\begin{array}{rcl} & & 2 \\ & & : \\ & & 2 \end{array}$$

101. (C) 

$$l = \sqrt{(14)^2 + \left(\frac{21}{2}\right)^2}$$

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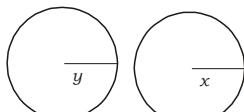
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$$= \sqrt{196 + \frac{441}{4}} = \sqrt{\frac{1225}{4}} = \frac{35}{2} \text{ m}$$

Total cost = CSA \times cost of 1m²

$$= \frac{22}{7} \times \frac{35}{2} \times \frac{21}{2} \times 6 = ₹ 3465$$

102. (A)



$$W = \pi y^2 \quad A = \pi x^2$$

ATQ,

$$\pi y^2 - \pi x^2 = w'$$

$$\Rightarrow W - \pi x^2 = w' \quad (\text{putting } \pi y^2 = W)$$

$$\Rightarrow \pi x^2 = W - w'$$

$$\frac{\pi x^2}{\pi y^2} = \frac{W - w'}{W}$$

$$\Rightarrow \frac{x}{y} = \sqrt{1 - \frac{w'}{W}}$$

103. (A) Speed of man = 8 km/h

Speed of stream = x km/h

Then,

$$x + 8 = \frac{44}{4} = 11$$

$$x = 3 \text{ km/h}$$

$$\text{speed upstream} = 8 - 3 = 5 \text{ km/h}$$

$$\therefore \text{Required time} = \frac{25}{5} = 5 \text{ hours.}$$

104. (B) Pankaj \rightarrow 20 days

Let the total work = 20 units

$$\text{Then, } 25\% = \frac{1}{4}$$

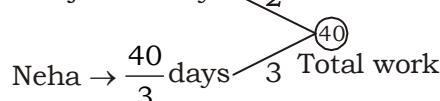
$$\text{Remaining work} = 20 \times \frac{3}{4} = 15 \text{ units}$$

15 units done by Neha in 10 days

20 units (Total work) done by Neha

$$= \frac{10}{15} \times 20 = \frac{40}{3} \text{ days}$$

Pankaj \rightarrow 20 days



Time required for Pankaj and Neha to

$$\text{complete the work} = \frac{40}{5} = 8 \text{ days}$$

105. (C) Relative speed = 45 - 40 = 5 km/hr

$$\therefore \text{Required distance} = \left(5 \times \frac{45}{60} \right) \text{ km}$$

$$= \frac{15}{4} \text{ km}$$

= 3 km 750 metre.

106. (A) C.P. = ₹ 1800

$$\text{S.P.} = 1800 \times \frac{11}{10} = ₹ 1980$$

$$\text{Increase in profit} = \frac{2070 - 1980}{1800}$$

$$= \frac{90}{1800} \times 100 = 5\%$$

107. (C) Product of numbers = LCM \times HCF

Let other number be x

Then,

$$x \times 32 = 160 \times 16$$

$$\therefore \text{Required sum} = 80 + 16 = 96$$

108. (B) Let the speed of boat in still water and the speed of current be x km/h and y km/h.

$$x + y = 20$$

$$\Rightarrow x = 20 - 5 = 15 \text{ km/h}$$

Upstream speed,

$$x - y = 15 - 5 = 10 \text{ km/h}$$

$$\text{Upstream time} = \frac{20}{10} = 2 \text{ hrs}$$

109. (D) Time taken by all the three pipes to fill the tank

$$= \frac{1}{10} + \frac{1}{12} - \frac{1}{6} = 60 \text{ min}$$

Time taken to fill the two-third part of tank

$$= \frac{60}{1} = \frac{x}{\frac{2}{3}} = \mathbf{40 \text{ minute}}$$

110. (D) Let the quantity of acid be added be x gm.

A.T.Q.,

$$\frac{600 \times \frac{2}{5} + x}{600 + x} = \frac{1}{2}$$

$$\Rightarrow 480 + 2x = 600 + x$$

$$\therefore \text{Required quantity } x = 600 - 480 = \mathbf{120 \text{ gm}}$$

111. (B) $\cos^2 \alpha + \cos^2 \beta = 2$

$$= 1 - \sin^2 \alpha + 1 - \sin^2 \beta = 2$$

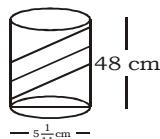
$$= \sin^2 \alpha + \sin^2 \beta = 0$$

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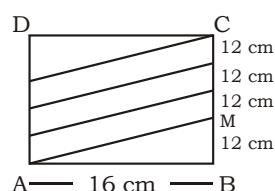
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$$\begin{aligned} &= \sin\alpha = \sin\beta = 0 \\ &\Rightarrow \alpha = \beta = 0 \\ &\therefore \tan^3\alpha + \sin^5\beta = 0 \end{aligned}$$

112. (A)



When we open it



The base circumference

$$\begin{aligned} &= 2\pi r = 2 \times \frac{22}{7} \times \frac{56}{11} \times \frac{1}{2} = 16 \text{ cm} \\ &\therefore \text{AM} = \text{length of one complete turn} \\ &= \sqrt{16^2 + 12^2} \\ &= 20 \text{ cm} \\ &\therefore \text{total length} = 4 \times 20 = 80 \text{ cm} \end{aligned}$$

113. (B) $a^2 + b^2 + c^2 = ab + bc + ca$

$$\Rightarrow a^2 + b^2 + c^2 - ab - bc - ca = 0$$

Multiply by "2" on both sides,

$$2a^2 + 2b^2 + 2c^2 - 2ab - 2bc - 2ca = 0$$

$$\Rightarrow (a-b)^2 + (b-c)^2 + (c-a)^2 = 0$$

$$\therefore a = b = c$$

\therefore The triangle is equilateral

$$\begin{aligned} 114. (A) \quad &\sqrt{8} + 2\sqrt{32} - 3\sqrt{128} + 4\sqrt{50} \\ &= 2\sqrt{2} + 8\sqrt{2} - 3 \times 8\sqrt{2} + 4 \times 5\sqrt{2} \\ &= 2\sqrt{2} + 8\sqrt{2} - 24\sqrt{2} + 20\sqrt{2} \\ &= (2 + 8 - 24 + 20)\sqrt{2} \\ &= 6\sqrt{2} = 6 \times 1.414 = 8.484 \end{aligned}$$

115. (C) Suppose a container contains x units of liquid from which y units are taken out and replaced by water. After n operations, the quantity of pure liquid

$$= x \left(1 - \frac{y}{x}\right)^n \text{ units}$$

$$\text{Remaining water} = \left(1 - \frac{3}{30}\right)^2 = 30$$

$$= \frac{30 \times 9 \times 9}{100} = 24.3 \text{ litres}$$

116. (B) Let the total profit = 100 units

Remaining profit after donation

$$\therefore \text{Share of X} = \frac{95}{(3+2)} \times 3 = 57 \text{ units}$$

A.T.Q.,
57 units ₹8550

$$1 \text{ unit} = \frac{8550}{57}$$

$$100 \text{ units} = \frac{8550}{57} \times 100 = ₹15000$$

117. (A) Required angle

$$= \frac{60}{39 + 45 + 54 + 60 + 72} \times 360^\circ = 80^\circ$$

118. (D) Total production of B type of cars in 2013, 2014, 2015 and 2017

$$= 39 + 45 + 54 + 72 = 210$$

Production of all types of cars in 2017 =
36 + 72 + 45 + 47 + 55 = 255

$$\therefore \text{Required \%} = \frac{255 - 210}{255} \times 100$$

$$= 17.64$$

119. (A) Total production of C and E type cars in the years 2013

$$= 52 + 36 = 88$$

Total production of D in 2014 and 2016 and E in 2017

$$= 42 + 46 + 55 = 143$$

$$\therefore \text{Required ratio} = 88 : 143 = 8 : 13$$

120. (C) Total production of A type cars in year 2015 and C type cars in 2013 = 48 + 52 = 100

Total production of D type cars in five years

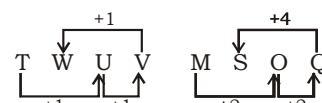
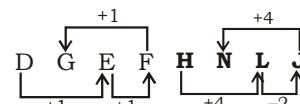
$$= 50 + 42 + 45 + 46 + 47 = 230$$

$$\therefore \text{Required \%} = \frac{100}{230} \times 100$$

$$= \frac{1000}{23} \approx 43.5\%$$

121. (B) $12 = 3 \times 4, \quad 14 = 2 \times 7$
 $56 = 7 \times 8, \quad 30 = 5 \times 6$

122. (B)



123. (A)

124. (A)

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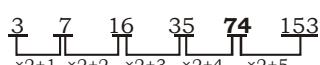
125. (D) As,

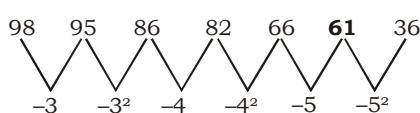
$$4 = 2 \times 2 \quad 2^3 \times 2^2 = 8 \times 4 = 32$$

Similarly,

$$6 = 3 \times 2 \quad 3^3 \times 2^2 = 27 \times 4 = 108$$

126. (D)

127. (B) 

128. (C) 

129. (D) 130. (D)

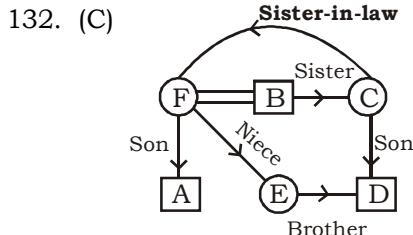
131. (C) As, C O M P U T E R

~~O C R E P M T U~~

Similarly,

~~D A U G H T E R~~

~~A D R E S S U T H~~



133. (D) The required ratio = $\frac{\frac{2}{3} + \frac{4}{9}}{\frac{1}{3} + \frac{5}{9}}$

$$= \frac{10/9}{8/9} = 5 : 4$$

134. (C)

135. (D)

136. (A) As, FLOWER = (Total alphabet+1) \times 2

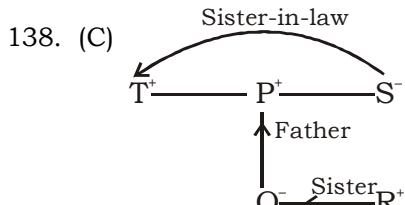
$$\Rightarrow (6 + 1) \times 2 = 14$$

$$\text{And, DISTASTE} = (8 + 1) \times 2 = 18$$

Similarly,

$$\text{BUREAUCRAT} = (10 + 1) \times 2 = 22$$

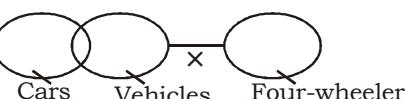
137. (A) acb/ddb/acb/ddb/acb/ddb



139. (B) Except (B), in all others options the

country name and its currency name are given.

140. (C)



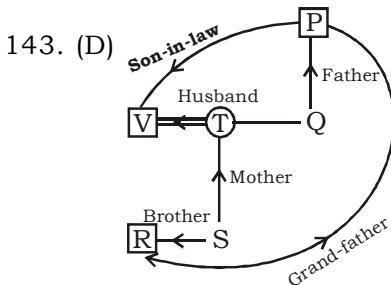
Conclusion:

I. (x) II. (x)

III. (✓)

∴ Only conclusion III follows.

142. (D)



143. (D) Parents — Rich Persons



145. (B) 10 years ago,
Let, Son's age = x years

$$\text{his father's age} = \frac{7}{2}x \text{ years}$$

ATQ.,

$$\left(\frac{7x}{2} + 20 \right) = \frac{9}{4}(x + 20)$$

$$\Rightarrow \frac{7x + 40}{2} = \frac{9x + 180}{4}$$

$$\Rightarrow 14x + 80 = 9x + 180$$

$$\Rightarrow 5x = 100 \Rightarrow x = 20$$

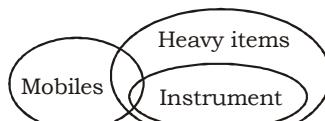
At present

$$\text{Son's age} = 20 + 10 = 30 \text{ years}$$

$$\begin{aligned} \text{His father's age} &= \frac{7}{2} \times 20 + 10 \\ &= 80 \text{ years} \end{aligned}$$

$$\begin{aligned} \text{The required sum} &= 80 + 30 \\ &= 110 \text{ years} \end{aligned}$$

146. (D)



I. ✓ II. ✗ III. ✓

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147. (C) ATQ,

Before	After
\div	\longrightarrow +
+	\longrightarrow -
-	\longrightarrow \times
\times	\longrightarrow \div

$$54 \times 6 - 7 \div 8 + 2$$

After changing the signs,

$$= 54 \div 6 \times 7 + 8 - 2$$

$$= 63 + 8 - 2 = 69$$

148. (A) Illness \rightarrow Doctor \rightarrow Diagnosis

Prescription \rightarrow medicine \rightarrow Recovery

149. (A) cbadbccbadbccbadbc

150. (B) ATQ.,

$$15 - 9 \div 6 \times 10 + 5 = 25$$

Form option (B)

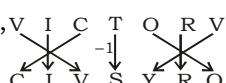
$$\Rightarrow 15 + 9 \div 6 \times 10 - 5$$

$$\Rightarrow 15 + \frac{3}{2} \times 10 - 5$$

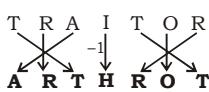
$$\Rightarrow 15 + 15 - 5$$

$$\Rightarrow 25$$

151. (D) As, v, I, C, T, O, R, V



Similarly, T, R, A, I, T, O, R



152. (A)

153. (D)

$$154. (C) A = \frac{1}{2}(B+C) \Rightarrow \frac{A}{B+C} = \frac{1}{2}$$

$$\Rightarrow \frac{A}{A+B+C} = \frac{1}{3} \times \frac{5}{5} = \frac{5}{15}$$

$$\text{and } B = \frac{1}{4}(A+C) \Rightarrow \frac{B}{A+C} = \frac{1}{4}$$

$$\Rightarrow \frac{B}{A+B+C} = \frac{1}{5} \times \frac{3}{3} = \frac{3}{15}$$

$$\therefore A : B : C = 5, 3, 7$$

C's share more than that of

$$A = \frac{75}{15} \times 1875 = \frac{2}{15} \times 1875$$

$$= 2 \times 125 = ₹250$$

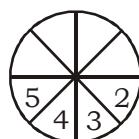
155. (D)

$$156. (B) 9 + 3^2 = 9 + 9 = 18$$

$$18 + 3^2 = 18 + 9 = 27$$

$$27 + 3^2 = 27 + 9 = 36$$

157. (B)



In half part of circle digit are increasing in ascending order i.e. 2, 3, 4, 5



In the half part of circle digits are increasing in ascending order in odd number if,

5, 7, 9, 11

158. (C) In figure I

$$(15 \times 6 \times 4) \div 36$$

$$= 360 \div 36 = 10$$

In figure II

$$(6 \times 7 \times 5) \div 21$$

$$= 210 \div 21 = 10$$

In figure III

$$(50 \times 10 \times 10) \div x = 10$$

$$x = 5000 \div 10$$

$$x = 500$$

159. (B) In row I

$$14 + 19 + 12 = 45$$

In row II

$$13 + 15 + 17 = 45$$

So, In row III

$$18 + 11 + x = 45$$

$$29 + x = 45$$

$$x = 45 - 29$$

$$x = 16$$

160. (D) In these question

in row \rightarrow YDR

in column \rightarrow EDO

Then complete word is REDOUBT and HYDRANT.

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UP SI ANSWER KEY - 56

- | | | | | | | | |
|---------|---------|---------|---------|----------|----------|----------|----------|
| 1. (D) | 21. (C) | 41. (B) | 61. (A) | 81. (C) | 101. (C) | 121. (B) | 141. (C) |
| 2. (B) | 22. (B) | 42. (A) | 62. (A) | 82. (B) | 102. (A) | 122. (B) | 142. (D) |
| 3. (B) | 23. (D) | 43. (A) | 63. (B) | 83. (A) | 103. (A) | 123. (A) | 143. (D) |
| 4. (C) | 24. (A) | 44. (D) | 64. (B) | 84. (A) | 104. (B) | 124. (A) | 144. (B) |
| 5. (D) | 25. (B) | 45. (C) | 65. (C) | 85. (D) | 105. (C) | 125. (D) | 145. (B) |
| 6. (A) | 26. (D) | 46. (C) | 66. (B) | 86. (B) | 106. (A) | 126. (D) | 146. (D) |
| 7. (D) | 27. (B) | 47. (A) | 67. (A) | 87. (B) | 107. (C) | 127. (B) | 147. (C) |
| 8. (B) | 28. (A) | 48. (D) | 68. (A) | 88. (B) | 108. (B) | 128. (C) | 148. (A) |
| 9. (A) | 29. (C) | 49. (B) | 69. (A) | 89. (B) | 109. (D) | 129. (D) | 149. (A) |
| 10. (D) | 30. (A) | 50. (B) | 70. (A) | 90. (A) | 110. (D) | 130. (D) | 150. (B) |
| 11. (D) | 31. (B) | 51. (A) | 71. (A) | 91. (B) | 111. (B) | 131. (C) | 151. (D) |
| 12. (A) | 32. (B) | 52. (A) | 72. (A) | 92. (A) | 112. (A) | 132. (C) | 152. (A) |
| 13. (C) | 33. (A) | 53. (B) | 73. (A) | 93. (A) | 113. (B) | 133. (D) | 153. (D) |
| 14. (A) | 34. (B) | 54. (C) | 74. (B) | 94. (D) | 114. (A) | 134. (C) | 154. (C) |
| 15. (A) | 35. (B) | 55. (B) | 75. (B) | 95. (B) | 115. (C) | 135. (D) | 155. (D) |
| 16. (C) | 36. (A) | 56. (C) | 76. (A) | 96. (C) | 116. (B) | 136. (A) | 156. (B) |
| 17. (A) | 37. (C) | 57. (D) | 77. (D) | 97. (C) | 117. (A) | 137. (A) | 157. (B) |
| 18. (A) | 38. (D) | 58. (A) | 78. (C) | 98. (A) | 118. (D) | 138. (C) | 158. (C) |
| 19. (D) | 39. (A) | 59. (D) | 79. (A) | 99. (B) | 119. (A) | 139. (B) | 159. (B) |
| 20. (A) | 40. (D) | 60. (D) | 80. (A) | 100. (C) | 120. (C) | 140. (C) | 160. (D) |

