

UP SI MOCK TEST - 53 (SOLUTION)

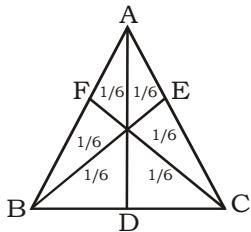
81. (A) Marks obtained by A
= 360 marks

$$\text{Marks obtained by C} = \frac{360}{125} \times 100 = 288 \text{ marks}$$

$$\text{Marks obtained by D} = \frac{288}{80} \times 100 = 360 \text{ marks}$$

$$\text{Required percent marks obtained by D} = \frac{360}{500} \times 100 = 72\%$$

82. (D)



$$\text{One part} = \frac{1}{6} \times 60 = 10 \text{ cm}^2$$

$$\text{Area of two part} = 2 \times 10 = 20 \text{ cm}^2$$

83. (C) Let CP = 100 units

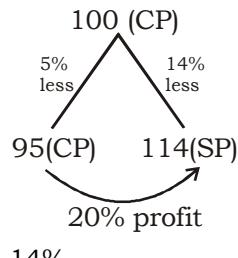
$$SP = 130 \text{ units}$$

$$130 \text{ units} \rightarrow ₹1690$$

$$100 \text{ units} \rightarrow \frac{₹1690}{130} \times 100 \rightarrow ₹1300$$

84. (C) A.T.Q,

Let original price = 100



14% .

85. (A) Total surface area of tank without top
TSA = $30 \times 20 + 2(12 \times 20) + 2(30 \times 12) = 1800 \text{ m}^2$

∴ area of iron sheet = T.S.A without top
⇒ Length × width = 1800

$$\Rightarrow \text{Length} = \frac{1800}{3} = 600 \text{ m}$$

$$\therefore \text{Cost} = 600 \times 10 = ₹ 6000$$

86. (B) $a^3 + b^3 + c^3 - 3abc = 0$

$$\Rightarrow a + b + c = 0$$

$$3x - 1 + 4x - 3 + 2x + 1 = 0$$

$$9x - 3 = 0$$

$$\Rightarrow x = \frac{1}{3} \text{ But } x \neq \frac{1}{3}$$

$$\Rightarrow a = b = c$$

$$\Rightarrow 3x - 1 = 4x - 3$$

$$\Rightarrow x - 2 = 0$$

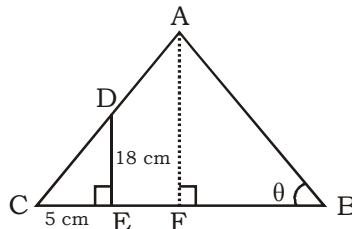
$$\Rightarrow x = 2$$

87. (B) Given $x^2 - \frac{1}{x^2} = 6$ then

$$x^6 - \frac{1}{x^6} = 234$$

$$x^6 - \frac{1}{x^6} - 5 \left(x^2 - \frac{1}{x^2} \right) + 5 = 234 - 5(6) + 5 = 209$$

88. (A)



Draw a line A from AF ⊥ BC

Let ∠ABC = θ

A.T.Q.,

$$\tan \theta = \frac{AF}{BF} = 3.6$$

From diagram

$$\tan \angle ABC = \frac{18}{5} = 3.6$$

$$\angle ACB = \angle ABC$$

Hence, ABC is an equilateral
∴ F will be midpoint of BC

$$\frac{AC}{CD} = \frac{CF}{CE}$$

[∴ ΔACE and ΔACF congruence]

$$\frac{2CF}{2CE} = \frac{BC}{2CE}$$

$$AC : CD = BC : 2CE$$

89. (C) Single discount

$$= 20 + 40 - \frac{20 \times 40}{100} = 52\%$$

90. (B) Percent discount

$$= \frac{1200 - 1100}{1200} \times 100 = 8\frac{1}{3}\%$$

91. (C) Time = $18 + 28 + 31 + 30 + 31 + 8 = 146$ days
Simple interest

$$= \frac{12,000 \times 146 \times 15}{365 \times 100}$$

$$\text{Simple interest} = ₹ 720$$

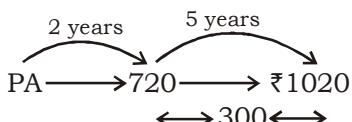
$$\text{Amount} = ₹ (12,000 + 720)$$

$$= ₹ 12,720$$

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92. (B)



⇒ According to figure

⇒ SI for 5 years = ₹ 300

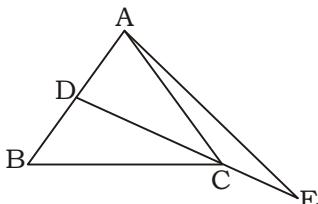
⇒ SI for 1 years = ₹ 60

⇒ SI for 2 years = $60 \times 2 = 120$

⇒ Principal amount = Amount after 2 years - 2 years SI = $720 - 120$

⇒ Principal amount = ₹ 600

93. (D)



ΔABC is equilateral,

⇒ ∠BCD = ∠DCA = 30° (\because CD bisectors ∠ACB)

∴ ∠ACE = $180^\circ - 30^\circ = 150^\circ$

AC = CE

$$\therefore \angle CAE = \angle CEA = \frac{30}{2} = 15^\circ$$

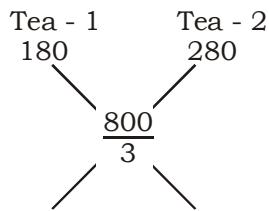
94. (D) A.T.Q.,

SP of the mixture = ₹320

Gain = 20%

$$\begin{aligned}\therefore \text{CP of the mixture} &= 320 \times \frac{100}{120} \\ &= \text{₹} \frac{800}{3}\end{aligned}$$

Now using allegation method.

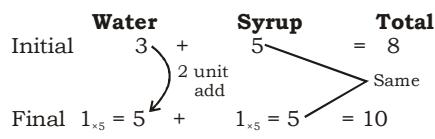


$$280 - \frac{800}{3} = \frac{40}{3} \quad \frac{800}{3} - 180 = \frac{260}{3}$$

Ratio of → 40 : 260

Quantity → 2 : 13

95. (C) A.T.Q.,



Water add in final

$$= \frac{2}{10} = \frac{1}{5}$$

96. (B) A.T.Q.,

AB || CD

$$x = \frac{4}{3}y \text{ (given)}$$

$$x : y = 4 : 3$$

$$y = \frac{3}{8}z \text{ (given)}$$

$$y : z = 3 : 8$$

$$\therefore x : y : z = 4 : 3 : 8$$

$$x = \frac{4}{15} \times 180^\circ = 45^\circ$$

In ΔABD

$$\angle BAD = 180^\circ - (x + 36^\circ)$$

$$= 180^\circ - 48^\circ - 36^\circ$$

$$= 96^\circ$$

97. (A) Let their monthly income $8x$ and $5x$ A.T.Q.,

$$\frac{8x - 12000}{5x - 10000} = \frac{5}{3}$$

[Income - saving = expenditure]

$$\Rightarrow 24x - 36000$$

$$= 25x - 50000$$

$$x = 14000$$

Diff. in monthly income

$$= 8x - 36000$$

$$= 25x - 5000$$

Diff. in monthly income

$$= 8x - 5x = 3x$$

$$x = 14000$$

$$3x = 14000 \times 3$$

$$= ₹ 42000$$

98. (B) A.T.Q.,

$$\frac{11-x}{15-x} = \frac{2}{3}$$

$$\Rightarrow 33 - 3x = 30$$

$$\Rightarrow x = 3$$

$$99. (C) \frac{(A^3 - B^3)}{(A - B)} = A^2 + AB + B^2$$

$$= \frac{135(\sqrt{5}x^3 - 2\sqrt{2}y^3)}{(3\sqrt{5}x - \sqrt{2}y)}$$

$$= 45x^2 + 2y^2 + 3\sqrt{10}xy$$

$$A + B - 9C = 47 - 27 = 20$$

100. (B) $(8x^3 + 27y^3) \div = Ax^2 + Bxy + Cy^2$

$$(2x+3y) [(2x)^2 - (2x)(3y) + (3y)^2]$$

$$\frac{[(2x)^2 - (2x)(3y) + (3y)^2]}{(2x+3y)}$$

$$= Ax^2 + Bxy + Cy^2$$

$$\Rightarrow (4x^2 - 6xy + 9y^2) = Ax^2 + Bxy + Cy^2$$

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Comparing both sides, we have

$$A = 4, B = 6, C = 9$$

$$\Rightarrow (5A + 4B + 3C) = 5 \times 4 - 4 \times 6 + 3 \\ = 20 - 24 + 27 = 23$$

101. (D) $\frac{90 \text{ men} \times 16 \text{ days} \times 12 \text{ hours}}{1 \text{ work}}$

$$= \frac{70 \text{ men} \times 24 \text{ days} \times 8 \text{ hours}}{W \text{ work}}$$

$$90 \times 16 \times 12 = \frac{70 \times 24 \times 8}{W}$$

$$9W = 7, W = \frac{7}{9}$$

102. (B) A.T.Q.,

$$\Rightarrow 2A = 3B$$

$$\Rightarrow \frac{A}{B} = \frac{3}{2}$$

\Rightarrow Then efficiency ratio $A : B = 3 : 2$

\Rightarrow We know that time is inverse proportional to efficiency

\Rightarrow The time taken by them in ratio

$$A : B = 2 : 3$$

$$\begin{array}{ccc} A & : & B = 2 & : & 3 \\ & & 4\downarrow & & \downarrow \times 4 \\ & & 8 \text{ days} & & 12 \text{ days} \end{array}$$

\therefore A can do the work in 8 days

\Rightarrow i.e. 2 units $\rightarrow 8$

1 unit $\rightarrow 4$

\Rightarrow Time taken by B $\rightarrow 3$ units

$$= 3 \times 4$$

$$= 12 \text{ days}$$

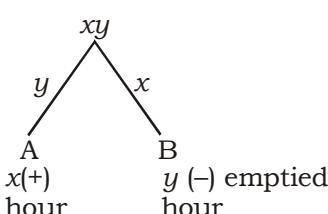
103. (B) $\angle ADP = \frac{1}{2} \angle AOB = \frac{1}{2} \times 100 = 50^\circ$

$$\angle DAP = 30^\circ$$

In $\triangle ADP$

$$\begin{aligned} \angle APB &= \angle DAP + \angle ADP \\ &= 30^\circ + 50^\circ \\ &= 80^\circ \end{aligned}$$

104. (D)



Time will be taken by both of them to fill the tank

$$= \frac{xy}{y - x}$$

105. (C) Usual : New

Ratio of speed $\rightarrow 4 : 3$

Ratio of time $\rightarrow 3 : 4$

\nearrow
1 unit late
(more)

$$\left\{ \text{Speed} \propto \frac{1}{\text{Time}} \right\}$$

It is given that he takes 2 hours more than the usual time i.e.

1 unit = 2 hours

3 units = $3 \times 2 = 6$ hours

So, the usual time taken by man to cover the distance = 6 hours

106. (D) Second train covers the 120 kms more distance only because of its exceed speed of

$$(60 - 50) \text{ km} = 10 \text{ kmph}$$

\Rightarrow Time, taken by trains to meet each

$$\text{other} = \frac{90 \text{ kms}}{10 \text{ km/h}} \Rightarrow 9 \text{ hours.}$$

\Rightarrow Distance covered by first train = $9 \times 50 = 450 \text{ km}$

\Rightarrow Distance covered by the second train = $9 \text{ hours} \times 60 \text{ kmph}$

$$= 540 \text{ km.}$$

\Rightarrow Total distance between A and B

$$= 540 + 450 = 990 \text{ km.}$$

107. (B)

$\triangle AOD \sim \triangle BOC$

$\therefore \angle ADB = \angle DBC$

[Alternate angle]

In $\triangle AOD$

$$\angle DAO + \angle AOD + \angle ADO = 180^\circ$$

$$\Rightarrow \angle ADO = 180^\circ - (90^\circ + 40^\circ)$$

$$\angle DBC = 50^\circ$$

108. (C) Speed of man in still water, $x = 3 \text{ km/hr.}$
Speed of the stream, $y = 2 \text{ km/hr.}$
Upstream speed = $x - y = 1 \text{ km/hr.}$

$$\text{Upstream time} = \frac{\text{Distance}}{\text{Upstream speed}}$$

$$= \frac{10 \text{ km}}{1 \text{ km/hr}} = 10 \text{ hr.}$$

$$\text{Downstream speed} \\ = x + y = 5 \text{ km/hr}$$



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Downstream time

$$= \frac{\text{Distance}}{\text{Upstream speed}}$$

$$= \frac{10 \text{ km}}{5 \text{ km/hr}} = 2 \text{ hours}$$

$$\begin{aligned} \text{Total time} &= \text{U.T.} + \text{D.T.} \\ &= 10 \text{ hr} + 2 \text{ hr} \\ &= 12 \text{ hrs.} \end{aligned}$$

109. (A) Let the numbers are $7x$ and $9x$

A.T.Q.,

$$7x \times 9x = 1575$$

$$63x^2 = 1575$$

$$x^2 = 25$$

$$x = 5$$

Then greater number = 45

110. (A) $3^{50} \rightarrow (3^5)^{10} \rightarrow (243)^{10}$

$$4^{40} \rightarrow (4^4)^{10} \rightarrow (256)^{10} \leftarrow \text{Largest}$$

$$5^{30} \rightarrow (5^3)^{10} \rightarrow (125)^{10}$$

$$6^{20} \rightarrow (6^2)^{10} \rightarrow (36)^{10}$$

111. (C) $(\sqrt{3} + 1)(10 + \sqrt{12})(\sqrt{12} - 2)(5 - \sqrt{3})$

$$\Rightarrow (\sqrt{3} + 1)(10 + 2\sqrt{3})(2\sqrt{3} - 2)(5 - \sqrt{3})$$

$$\Rightarrow (\sqrt{3} + 1) \times 2(5 + \sqrt{3}) \times 2(\sqrt{3} - 1)(5 - \sqrt{3})$$

$$\Rightarrow 4(\sqrt{3} + 1)(\sqrt{3} - 1)(5 + \sqrt{3})(5 - \sqrt{3})$$

$$\Rightarrow 4[(\sqrt{3})^2 - 1^2][(5)^2 - (\sqrt{3})^2]$$

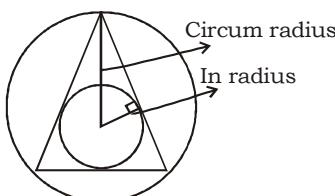
$$\Rightarrow 4 \times 2 \times 22 \Rightarrow 176$$

112. (B) $(0.2)^3 \times 200 \div 2000$ of $(0.2)^2$

$$\Rightarrow \frac{0.2 \times 0.2 \times 0.2 \times 200}{2000 \times 0.2 \times 0.2} \Rightarrow \frac{0.2 \times 200}{2000}$$

$$\Rightarrow \frac{40.0}{2000} \Rightarrow \frac{1}{50}$$

113. (C)



Circum radius of equilateral triangle =

$$\frac{(\text{side})}{\sqrt{3}}$$

In radius of equilateral triangle =

$$\frac{(\text{side})}{2\sqrt{3}}$$

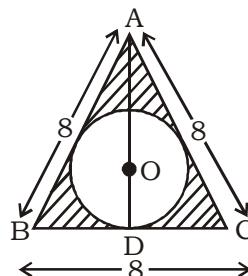
$$\frac{\text{side}}{\sqrt{3}} = 8$$

$$\text{Side} = 8\sqrt{3}$$

\therefore In radius of equilateral triangle

$$= \frac{(\text{side})}{2\sqrt{3}} = \frac{8\sqrt{3}}{2\sqrt{3}} = 4 \text{ cm}$$

114. (B)



A.T.Q.,

Here OC = radius

$$\therefore r = \frac{a}{2\sqrt{3}} = \frac{8}{2\sqrt{3}}$$

$$r = \frac{4}{\sqrt{3}}$$

Required area of shaded portion

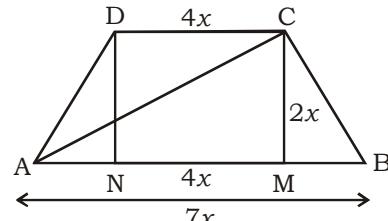
$$= \frac{\sqrt{3}}{4} \times (8)^2 - \pi \times \frac{16}{\sqrt{3}}$$

$$= \sqrt{3} \times 16 - \frac{22}{7} \times \frac{16}{3}$$

$$= 10.95 \text{ m}^3$$

$$= 11 \text{ m}^2$$

115. (A)



Area = $\frac{1}{2}$ (sum of parallel sides) \times distance between them

$$\frac{1}{2} (7x + 4x) \times 2x = 176$$

$$11x^2 = 176 \Rightarrow x^2 = 16$$

$$\Rightarrow = 4$$

$$AB = 7 \times 4 = 28 \text{ cm}$$

$$CD = 4 \times 4 = 16 \text{ cm}$$

$$CM = 2 \times 4 = 8 \text{ cm}$$

$$\begin{aligned} AM &= AN + NM \\ &= AN + 16 \end{aligned}$$

$$\Rightarrow 6 + 16 = 22 \quad (AN = BM = \frac{12}{2} = 6)$$

$$AC^2 = CM^2 + AM^2$$

$$AC = \sqrt{64 + 484} \Rightarrow \sqrt{548} \Rightarrow 2\sqrt{137}$$

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116. (A) Ratio of parallel sides = 5 : 3

Let sides are = $5x$ and $3x$

$\frac{1}{2}$ (sum of parallel sides) \times perpendicular distance = 1440 m²

$$\frac{1}{2}(5x + 3x) \times 24 = 1440$$

$$4x \times 24 = 1440$$

$$x = \frac{1440}{4 \times 24} = 15 \text{ m}$$

\therefore Length of longer side

$$= 5x$$

$$= 5 \times 15 = 75 \text{ m}$$

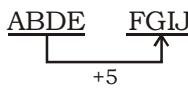
117. (B) Required percentage = $\frac{225}{474} \times 100$
 $= 47.5$

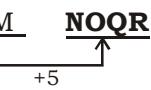
118. (A) Required percentage = $\frac{23}{474} \times 100$
 $= 4.9$

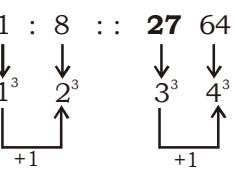
119. (B) $A = \frac{15}{73} \times 100 = 20.54\%$
 $= 21 \text{ Appox.}$

120. (C) Required percentage = $\frac{73}{225} \times 100$
 $= 32.44 = 32 \text{ Appox.}$

121. (C) As Microphone makes sound louder similarly Microscope makes the object magnified.

122. (A) As, 

Similarly, 

123. (D) 

124. (D) Students are in college and patients are in hospital.

125. (B) $443 \Rightarrow 4 + 4 + 3 = 11$

$$633 \Rightarrow 6 + 3 + 3 = 12$$

$$821 \Rightarrow 8 + 2 + 1 = 11$$

$$245 \Rightarrow 2 + 4 + 5 = 11$$

126. (C)

Letters	A	W
Position	1	23
	↓ Odd position position	↓ Odd position

Letters	A	G
Position	1	7
	↓ Odd Position	↓ Odd Position

Letters	E	T
Position	5	20
	↓ Odd Position	↓ Odd Position

Letters	I	Q
Position	9	17
	↓ Odd Position	↓ Odd Position

127. (B) Except Ounce all others are unit of length.

128. (B) In this series, each number is repeated, then 13 is subtracted to arrive at the next number.

129. (A) Triangle $1 \rightarrow 3^2 = 9$ and $4^2 = 16$ hence 916

Triangle $2 \rightarrow 2^2 = 4$ and $5^2 = 25$ hence 425

Similarly, $1^2 = 1$ and $7^2 = 49$

Hence, 149 is the right answer.

130. (C) Here is how we get the sequence

$$1049760/58320 = 18$$

$$58320/3888 = 15$$

$$3888/324 = 12$$

$$324/36 = 9$$

$$36/6 = 6$$

$$\text{Then, } 6/? = 3$$

$$\Rightarrow ? = 6/3 = 2$$

(we can observe a difference of 3 in each of the obtained result.)

131. (C) There are two alphabetical series here. The first series is with the first letters only: STUVW. The second series involves the remaining letters: CD, EF, GH, IJ, KL.

132. (C) Total numbers triangle of 24.

133. (C)

134. (D)



135. (A) Hence D is the letter which is missing and it is opposite to face A.

Top face	A	B	F
Bottom face	A	E	C

136. (A) A is the mother of B, B is the brother of C and C is the daughter of D. Hence, D is the father.

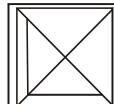
A (Parents) **D**

|

B is the Brother of **C**

Here, the one which are bold are females (A, C) and not bold are males (B, D).

137. (B)



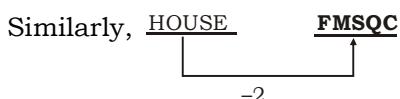
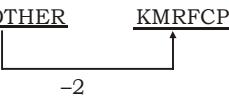


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138. (D) Neither conclusion I nor conclusion II follows

139. (C) As, MOTHER KMRFCP



140. (A) $56 \times 11 = 56 - 11 = 45 \Rightarrow 4 + 5 = 9$
 $37 \times 13 = 37 - 13 = 24 \Rightarrow 2 + 4 = 6$
 $42 \times 12 = 42 - 12 = 30 \Rightarrow 3 + 0 = 3$
 $87 \times 77 = 87 - 77 = 10 \Rightarrow 1 + 0 = 1$

141. (C) Blackboard is in Class and Class is in the School.

142. (C) Both conclusion I and II follow.

143. (C) From options (3),

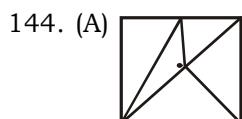
$$(10 \times 7) - 2 < (10 - 2) \times 7$$

After changing the signs as per the given details,

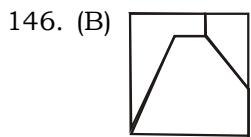
$$(10 + 7) \times 2 < (10 \times 2) + 7$$

$$\Rightarrow 34 < 27$$

But, 34 is not less than 27



145. (B) The Age of Teacher = $20 + 21 = 41$ years



147. (B) 'The only daughter of the father of X's mother' means mother of X.

Hence X is the son of the lady in the photograph.

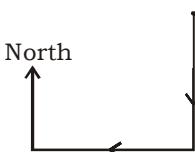
148. (B) N U M E R A L
 1 2 3 4 5 6 7
 U E A L R M N
 2 4 6 7 5 3 1

Similarly,

- | | | | | | | |
|----------|----------|----------|----------|----------|----------|----------|
| A | L | G | E | B | R | A |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| L | E | R | A | B | G | A |
| 2 | 4 | 6 | 7 | 5 | 3 | 1 |

149. (C)

150. (A)



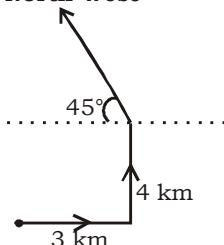
151. (D) As, $37 + 14 = 51 \Rightarrow \frac{51}{3} = 17$

$$69 + 33 = 102 \Rightarrow \frac{102}{3} = 34$$

$$91 + 125 = 216 \Rightarrow \frac{216}{3} = 72$$

$$\text{Similarly, } 28 + 56 = 84 \Rightarrow \frac{84}{3} = \mathbf{28}$$

152. (B) **North-West**



153. (B) CURTAIN

154. (D) **PANDA**, **TOAD** and **DONKEY** are the animals which can be formed after including the vowels.

APPLE can also be formed after including vowels A & E but **Apple** is not an animal.

155. (D) $10 * 10 = 5 * 10 ? 50 @ 10$

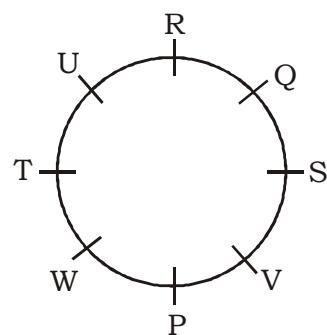
After changing the signs as per the given details,

$$10 \times 10 - 5 \times 10 + 50 \div 10$$

$$= 100 - 50 + 5$$

$$= 55$$

Directions (156 – 160): Answer



156. (B)

158. (D)

160. (A)

157. (D)

159. (C)

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UP SI ANSWER KEY - 53

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

