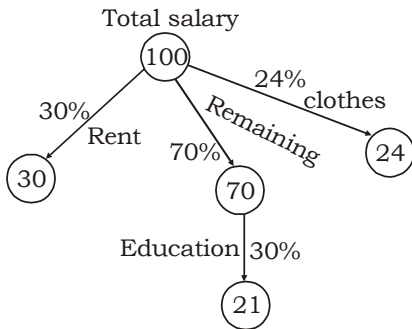


**UP SI MOCK TEST - 47 (SOLUTION)**

81. (C)



Total spend money =  $30 + 21 + 24 = 75$

Remaining salary =  $(100 - 75) = 25$

According to the question

25 unit  $\rightarrow$  2500

1 unit  $\rightarrow \frac{2500}{25} = 100$

Total salary =  $100 \times 100 = ₹ 10,000$

82. (D) Worth of house for A = ₹ 10,000

Cost price of house for B =  $\frac{10,000 \times 115}{100}$   
= ₹ 11,500

New cost price for A =  $\frac{11500 \times 85}{100}$   
= ₹ 9775

Total profit =  $(11500 - 10000) + (10000 - 9975)$   
=  $1500 + 225 = ₹ 1725$

Percentage gain =  $\frac{1725}{10000} \times 100 = 17.25\%$

83. (B)  $\frac{6}{4} = \frac{h}{50}$  (Assuming 'h' be the height of pole)

$\Rightarrow h = \frac{50 \times 6}{4} = 75$  feet

84. (B) The total interest for the two consecutive periods of six month each would be

$$= \left( \frac{6}{2} + \frac{6}{2} + \frac{6 \times 6}{100} \right) \%$$

$$= \left( 3 + 3 + \frac{3 \times 3}{100} \right) \%$$

i.e. 6.09% of the sum

Hence, the amount to be paid after one year would be  $(100 + 6.09)\%$

i.e. 106.09% of the sum

$\therefore$  Required amount

$$= \frac{9000 \times 106.09}{100} = ₹ 9548.10$$

85. (A) Train covers 84 m length of platform in  $21 - 9 = 12$  sec.

$\therefore$  Speed of the train =  $\frac{84}{12} = 7$  m/sec

$$= 7 \times \frac{18}{5} \text{ km/hr} = 25.2 \text{ km/hr}$$

86. (A) A  $\rightarrow$  10 days  $\xrightarrow{6 \text{ units/day}}$   
B  $\rightarrow$  15 days  $\xrightarrow{4 \text{ units/day}}$   
C  $\rightarrow$  20 days  $\xrightarrow{3 \text{ units/day}}$   $\rightarrow$  60 Total work (in units)

ATQ,

$(6 + 4 + 3)$ units = ₹ 6500

1 unit = ₹ 500

Share of B =  $500 \times 4 = ₹ 2000$

87. (D) Let the cost price of buffalo = ₹ x

Profit =  $(720 - x)$

Loss =  $(x - 510)$

According to the question,

$$2(720 - x) = (x - 510)$$

$$\Rightarrow 1440 - 2x = x - 510$$

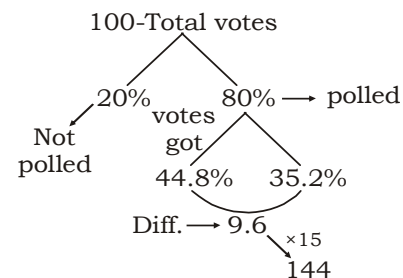
$$\Rightarrow 3x = 1950$$

$$\Rightarrow x = 650$$

$\therefore$  CP of the buffalo = ₹ 650

88. (D) Let the no. of voters be 100

ATQ,



$\therefore$  Total voters =  $100 \times 15 = 1500$

89. (C) Let the original fraction be  $\frac{x}{y}$  then,

$$\frac{x \times 132\%}{y \times 175\%} = \frac{12}{25}$$

$$\therefore \frac{x}{y} = \frac{12}{25} \times \frac{175}{132} = \frac{7}{11}$$

90. (C)  $x = 0.5$  and  $y = 0.2$  (Given)

$$\begin{aligned} &\therefore \sqrt{0.6} \times (3y)^x \\ &= \sqrt{0.6} \times (3 \times 0.2)^{0.5} \\ &= \sqrt{0.6} \times (0.6)^{\frac{1}{2}} \\ &= \sqrt{0.6 \times 0.6} = 0.6 \end{aligned}$$

91. (A)  $CD \parallel AB$

$$\begin{aligned} &\therefore \angle AED = \angle PDC = 34^\circ \text{ (corresponding angle)} \\ &\therefore \angle DEF = 180^\circ - 78^\circ - 34^\circ = 68^\circ \\ &\therefore QD \parallel EF \\ &\therefore \angle PDQ = \angle DEF = 68^\circ \text{ (corresponding angle)} \end{aligned}$$

92. (B)  $x = 3 + 2\sqrt{2}$

$$\begin{aligned} &\therefore \frac{1}{x} = \frac{1}{3 + 2\sqrt{2}} \\ &= \frac{1}{3 + 2\sqrt{2}} \times \frac{3 - 2\sqrt{2}}{3 - 2\sqrt{2}} \\ &= \frac{3 - 2\sqrt{2}}{9 - 8} = 3 - 2\sqrt{2} \\ &\therefore \left(\sqrt{x} - \frac{1}{\sqrt{x}}\right)^2 = x + \frac{1}{x} - 2 \\ &\Rightarrow \left(\sqrt{x} - \frac{1}{\sqrt{x}}\right)^2 = 3 + 2\sqrt{2} + 3 - 2\sqrt{2} - 2 = 4 \\ &\therefore \sqrt{x} - \frac{1}{\sqrt{x}} = 2 \end{aligned}$$

93. (A) Area of walls =  $2(l + b) \times h$

$$\begin{aligned} &= 2(8 + 6) \times 3 = 84 \text{ m}^2 \\ &\text{Area of two windows and a door} \end{aligned}$$

$$= 2\left(1\frac{1}{2} \times 1\right) + \left(2 \times 1\frac{1}{2}\right) = 6 \text{ m}^2$$

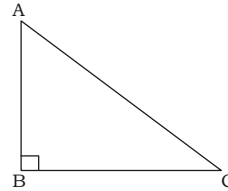
$$\begin{aligned} &\therefore \text{Area to be covered} = 84 - 6 = 78 \text{ m}^2 \\ &\therefore \text{Area of paper} = \text{Area to be covered} = 78 \text{ m}^2 \\ &\Rightarrow (l \times b) \text{ of paper} = 78 \\ &\Rightarrow \text{length of paper} = \frac{78}{50} \times 100 \text{ m} \\ &= 156 \text{ m} \end{aligned}$$

$$\therefore \text{cost} = \frac{156 \times 25}{100} = ₹ 39$$

94. (A)  $(a + b + c)^2 = a^2 + b^2 + c^2 + 2ab + 2bc + 2ca$

$$\begin{aligned} &\Rightarrow (4\sqrt{3})^2 = 16 + 2(ab + bc + ca) \\ &\Rightarrow 48 = 16 + 2(ab + bc + ca) \\ &\Rightarrow 2(ab + bc + ca) = 48 - 16 = 32 \\ &\Rightarrow ab + bc + ca = 16 \end{aligned}$$

95. (B)



$$\begin{aligned} &\frac{AB}{BC} = \frac{2}{1} \\ &\Rightarrow AB = 2k, BC = k \\ &\therefore AC = \sqrt{(2k)^2 + k^2} = \sqrt{5k^2} \\ &= \sqrt{5}k \\ &\therefore \sin A + \cot C = \frac{BC}{AC} + \frac{BC}{AB} \\ &= \frac{k}{\sqrt{5}k} + \frac{k}{2k} \\ &= \frac{1}{\sqrt{5}} + \frac{1}{2} = \frac{2 + \sqrt{5}}{2\sqrt{5}} \end{aligned}$$

96. (B)  $x = 11$

$$\begin{aligned} &\therefore x^5 - 12x^4 + 12x^3 - 12x^2 + 12x - 1 \\ &= x^5 - (11 + 1)x^4 + (11 + 1)x^3 - (11 + 1)x^2 + \\ &\quad (11 + 1)x - 1 \\ &= x^5 - 11x^4 - x^4 + 11x^3 + x^3 - 11x^2 - x^2 + \\ &\quad 11x + x - 1 \\ &\text{When } x = 11, \\ &= 11^5 - 11^5 - 11^4 + 11^4 + 11^3 - 11^3 - 11^2 \\ &\quad + 11^2 + 11 - 1 = 10 \end{aligned}$$

97. (A)  $\tan^2 \alpha = 1 + 2 \tan^2 \beta$

$$\begin{aligned} &\Rightarrow \sec^2 \alpha - 1 = 1 + 2(\sec^2 \beta - 1) \\ &\Rightarrow \sec^2 \alpha - 1 = 2 \sec^2 \beta - 1 \end{aligned}$$

$$\Rightarrow \frac{1}{\cos^2 \alpha} = \frac{1}{2 \cos^2 \beta}$$

$$\Rightarrow \sqrt{2} \cos \alpha = \cos \beta$$

$$\therefore \sqrt{2} \cos \alpha - \cos \beta = 0$$

98. (A)  $\sin 3A = \cos (A - 26^\circ)$

$$\begin{aligned} &\Rightarrow \cos (90^\circ - 3A) = \cos (A - 26^\circ) \\ &\Rightarrow 90^\circ - 3A = A - 26^\circ \\ &\Rightarrow 90^\circ + 26^\circ = 3A + A \\ &\Rightarrow 4A = 116^\circ \end{aligned}$$

$$\Rightarrow A = \frac{116}{4} = 29^\circ$$

99. (B) Arc length = 40 cm

$$\text{Subtend angle} = 22\frac{1}{2}^\circ$$

$$\text{Radius} = \frac{40 \times 180}{22\frac{1}{2} \times 3.14} = 102 \text{ cm}$$

100. (A) First discount

$$= 320 \times \frac{10}{100} = ₹ 32$$

∴ Price after first discount

$$= 320 - 32 = ₹ 288$$

If the second discount be  $x\%$ , then

$$\therefore \frac{288 \times x}{100} = 288 - 244.80 = 43.2$$

$$\Rightarrow x = \frac{43.2 \times 100}{288} = 15\%$$

101. (B) Let the minimum score be  $x$

$$\text{Maximum score} = x + 100$$

$$\therefore 28 \times 38 + x + x + 100 = 30 \times 40$$

$$\Rightarrow 1064 + 2x + 100 = 1200$$

$$\Rightarrow 2x = 1200 - 1164 = 36$$

$$\boxed{x = 18}$$

102. (D) A → 12 days  $\frac{12 \text{ units/day}}$   
 B → 16 days  $\frac{9}{6}$   
 C → 24 days  $\frac{6}{6}$   
 D → 36 days  $\frac{4 \text{ units/day}}$

(144) Total work units

Work done on first day = 12 units

On second day = 12 + 9 = 21 units

On third day = 21 + 6 = 27 units

On fourth day = 27 + 4 = 31 units

On fifth day = 31 units and so on.

∴ Work done in five days = 91 + 31

= 122 units

Remaining work = 144 - 122 = 22 units

$$\text{Total time} = 5\frac{22}{31} \text{ days}$$

103. (D) Required no. of students

$$\Rightarrow \text{L.C.M of } 6, 8, 12 \text{ and } 16$$

$$= 96$$

104. (B) S.I. =  $\frac{6000 \times 5 \times 2}{100} = ₹ 600$

$$\text{C.I.} = 5000 \left[ \left( 1 + \frac{8}{100} \right)^2 - 1 \right]$$

$$= 5000 \left[ \left( \frac{27}{25} \right)^2 - 1 \right]$$

$$= 5000 \left[ \left( \frac{729 - 625}{625} \right) \right]$$

$$= 5000 \times \frac{104}{625} = ₹ 832$$

$$\text{Difference} = 832 - 600 = ₹ 232$$

105. (D) Second square root =  $\sqrt{24010000}$

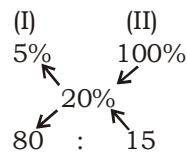
$$= 4900$$

Fourth square root =  $\sqrt{4900}$

$$= 70$$

106. (B) Let  $x$  be amount husk to added

Applying away which husk



$$16 : 3 = 20 : x$$

$$x = 3.75$$

107. (D) SP = ₹ 27692

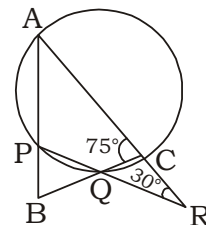
$$\text{Loss}\% = 14\% = \frac{7}{50}$$

$$\text{CP} = ₹ 27692 \times \frac{50}{43} = 32200$$

$$\text{SP new} = ₹ 37352$$

$$\text{Profit}\% = \frac{37352 - 32200}{32200} = 16\%$$

108. (D) ∴ Sum of opposite angles of a cyclic quadrilateral are equal.



$$\therefore \angle ACQ + \angle APQ = 180^\circ$$

$$\Rightarrow 75^\circ + \angle APQ = 180^\circ$$

$$\Rightarrow \angle APQ = 105^\circ$$

$$\therefore \angle APQ + \angle BPQ = 180^\circ$$

$$\therefore 105^\circ + \angle BPQ = 180^\circ$$

$$\text{or, } \angle BPQ = 180^\circ - 105^\circ = 75^\circ$$

$$\therefore \angle ACQ \text{ is an exterior angle of } \triangle RCQ$$

$$\therefore \angle ACQ = \angle CRQ + \angle COR$$

$$\Rightarrow 75^\circ = 30^\circ + \angle COR$$

$$\Rightarrow \angle COR = 45^\circ$$

$$\text{In } \triangle BPQ, \angle B = 180^\circ - 75^\circ - 45^\circ = 60^\circ$$

109. (B)  $\therefore a^3 - b^3 = (a - b)(a^2 + b^2 + ab)$

$$\therefore 56 = 2(a^2 + b^2 + ab)$$

$$\Rightarrow 28 = a^2 + b^2 + ab = (a - b)^2 + 3ab$$

$$\Rightarrow 28 = 4 + 3ab$$

$$\Rightarrow ab = 8$$

$$\text{Now, } a^2 + b^2 = (a - b)^2 + 2ab = 2^2 + 2 \times 8 = 20$$

110. (A) Expression =  $\frac{8 \sin \theta + 5 \cos \theta}{\sin^3 \theta + 2 \cos^3 \theta + 3 \cos \theta}$

Dividing numerator and denominator by  $\cos \theta$ ,

$$= \frac{8 \tan \theta + 5}{\tan \theta \cdot \sin^2 \theta + 2 \cos^2 \theta + 3}$$

$$= \frac{8 \tan \theta + 5}{2 \sin^2 \theta + 2 \cos^2 \theta + 3} \quad (\because \tan \theta = 2)$$

$$= \frac{8 \times 2 + 5}{2(\sin^2 \theta + \cos^2 \theta) + 3} = \frac{21}{5}$$

111. (C) Volume of solid cylinder =  $\pi r^2 h$

$$\text{Volume of cone} = \frac{1}{3} \pi r^2 h$$

$$\text{Difference} = \pi r^2 h - \frac{1}{3} \pi r^2 h$$

$$= \frac{2}{3} \pi r^2 h = \frac{2}{3} \times \frac{22}{7} \times 5 \times 5 \times 12$$

$$= 628.57 \text{ cu.cm.}$$

112. (A)  $x + \frac{1}{x} = 5$

On squaring both sides,

$$x^2 + \frac{1}{x^2} + 2 = 25$$

$$\Rightarrow x^2 + \frac{1}{x^2} = 25 - 2 = 23 \quad \dots(i)$$

Expression

$$= \frac{x^4 + 3x^3 + 5x^2 + 3x + 1}{x^4 + 1}$$

$$= \frac{x^4 + 1 + 3x^3 + 3x + 5x^2}{x^4 + 1}$$

$$= \frac{x^2 \left( x^2 + \frac{1}{x^2} \right) + 3x^2 \left( x + \frac{1}{x} \right) + 5x^2}{x^2 \left( x^2 + \frac{1}{x^2} \right)}$$

$$= \frac{\left( x^2 + \frac{1}{x^2} \right) + 3 \left( x + \frac{1}{x} \right) + 5}{x^2 + \frac{1}{x^2}}$$

$$= \frac{23 + 3 \times 5 + 5}{23} = \frac{43}{23}$$

113. (C)  $x = \sqrt[3]{a + \sqrt{a^2 + b^3}} + \sqrt[3]{a - \sqrt{a^2 + b^3}}$

Cubing both sides,

$$x^3 = \left( \sqrt[3]{a + \sqrt{a^2 + b^3}} \right)^3 + \left( \sqrt[3]{a - \sqrt{a^2 + b^3}} \right)^3$$

$$+ 3 \left( \sqrt[3]{a + \sqrt{a^2 + b^3}} \right) \left( \sqrt[3]{a - \sqrt{a^2 + b^3}} \right)$$

$$\left( \sqrt[3]{a + \sqrt{a^2 + b^3}} + \sqrt[3]{a - \sqrt{a^2 + b^3}} \right)$$

$$\Rightarrow x^3 = a + \sqrt{a^2 + b^3} + a - \sqrt{a^2 + b^3} +$$

$$+ 3 \left( \frac{a + \sqrt{a^2 + b^3}}{a - \sqrt{a^2 + b^3}} \right)^{\frac{1}{3}} x$$

$$\Rightarrow x^3 = 2a + 3 \left( a^2 - a^2 - b^3 \right)^{\frac{1}{3}} x$$

$$\Rightarrow x^3 = 2a + (-3bx)$$

$$\therefore x^3 + 3bx = 2a$$

114. (C) Since, point of intersection of medians is "centroid".

$\therefore$  co-ordinates of centroid

$$= \left( \frac{0+5+7}{3}, \frac{6+3+3}{3} \right)$$

$$= \left( \frac{12}{3}, \frac{12}{3} \right) = (4, 4)$$

115. (D)  $\frac{\sin 12^\circ}{\sin 48^\circ} - \frac{\cos 78^\circ}{\cos 42^\circ}$

$$= \frac{\sin 12^\circ}{\sin 48^\circ} - \frac{\cos(90^\circ - 12^\circ)}{\cos(90^\circ - 48^\circ)}$$

$$= \frac{\sin 12^\circ}{\sin 48^\circ} - \frac{\sin 12^\circ}{\sin 48^\circ} = 0$$

116. (A) Students enrolled in NCC activities

$$= \frac{1200 \times 15}{100} = 180$$

117. (C) Total students in HRD & Debating club

$$= 1200 \times \frac{(13+11)}{100} = 288$$

118. (D) Required percent

$$= \frac{22}{21} \times 100 = 104.76\%$$

119. (A) Required ratio

$$= (18 + 21) : 13$$

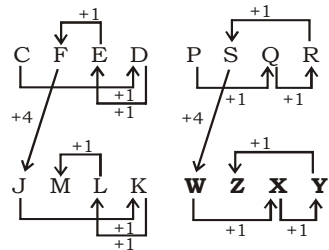
$$= 39 : 13 = 3 : 1$$

120. (A) Eco-club : Human resource development club

$$= 22 : 11 = 2 : 1$$

121. (D) Devotion is the characteristic of a monk whereas **wanderlust** is the characteristic of a Nomad.

122. (C)



123. (C) As,  $23^2 + 23 = 552$  Similarly,  $30^2 + 30 = 930$

124. (C) Generally, shoes is made by leather. Similarly, highway is made by gravel.

125. (D) In all the numbers, the middle digit is sum of digits of the product of two other digits.

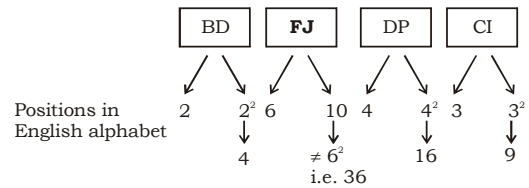
Now,  $9 \times 2 = 18$ ,  $1 + 8 = 9$  (middle digit in 992)

$7 \times 3 = 21$ ,  $2 + 1 = 3$  (middle digit in 733)

$8 \times 5 = 40$ ,  $4 + 0 = 4$  (middle digit in 845)

But,  $9 \times 7 = 63$ ,  $6 + 3 = 9 \neq 4$ . Hence 947 is different from others.

126. (B)



127. (A) Except Iron box, all need some type of energy to function.

128. (D)  $12 \times 8 - 7 = 96 - 7 = 89$ ,

$$15 \times 4 - 12 = 60 - 12 = 48,$$

$$25 \times 3 - 13 = 75 - 13 = \mathbf{62}$$

129. (C)  $\sqrt{25 \times 9} = 5 \times 3 = 15$

$$\text{and } \sqrt{36 \times 81} = 6 \times 9 = 54$$

$$\text{Therefore } \sqrt{16 \times 169} = 4 \times 13 = \mathbf{52}$$

130. (B)  $14 + 23 + 48 = 19 + 15 + 51 = 12 + 37 + \mathbf{36}$

The sum in each case = 85.

131. (C)  $2 \quad 9 \quad 28 \quad 65 \quad 126$

$$\downarrow \quad \downarrow \quad \downarrow \quad \downarrow \quad \downarrow$$

$$1^3+1 \quad 2^3+1 \quad 3^3+1 \quad 4^3+1 \quad 5^3+1$$

132. (A)

133. (C)  $9 \quad 19 \quad 40 \quad 83 \quad 170 \quad \mathbf{345}$

$$\begin{array}{cccccc} & \frown & \frown & \frown & \frown & \frown \\ & \times 2 + 1 & \times 2 + 2 & \times 2 + 3 & \times 2 + 4 & \times 2 + 5 \end{array}$$

134. (A)  $714 = 51 \times 14$

$$915 = 61 \times 15$$

$$1136 = 71 \times 16$$

$$\mathbf{1377} = 81 \times 17$$

135. (D)

136. (A)

Top Face			
Bottom Face			

[Take ‘∴’ (3) points as common and move in a clockwise direction.]

We can observe that “∴” (4) points is missing. So, four (4) points will be top when three (3) points are at bottom.

137. (A) Anupam's son-in-law is the brother of the lady who was sitting in the car. Hence, the husband is also the **son-in-law** of Anupam.

138. (A) From options

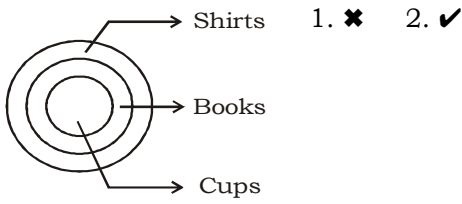
$$A \rightarrow 13 : 170 \rightarrow 13 : 13^2 + 1$$

$$B \rightarrow 11 : 120 \rightarrow 11 : 11^2 - 1$$

$$C \rightarrow 5 : 24 \rightarrow 5 : 5^2 - 1$$

$$D \rightarrow 7 : 48 \rightarrow 7 : 7^2 - 1$$

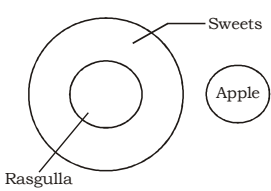
139. (B)



140. (B)  $5 \div 20 - 4 + 10 \times 8$   
After interchanging the sign as per given details,  
 $5 \times 20 \div 4 - 10 + 8$   
 $= 25 - 10 + 8 = 23$

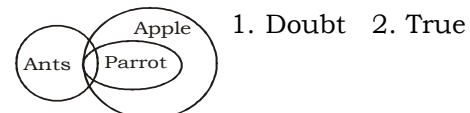
141. (C) Shyam's position from left  
 $= 9 - (4 - 2)$   
 $= 9 - 2 = 7^{\text{th}}$

142. (A)



Rasagulla is one of the sweets, while apple is different from these.

143. (B)



144. (C) The series is **abccab/bcaabc/abccab**.

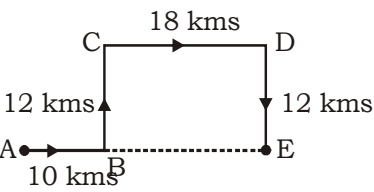
145. (B) ATQ,

Arun : Bablu = 4 : 7  
Bablu : Ram = 1 : 2  
Ram : Deep = 4 : 1  
Deep : Ankit = 1 : 9  
So,  
Arun : Bablu : Ram : Deep : Ankit  
**16** : 28 : 56 : 14 : 126  
 $\therefore$  Deep < **Arun** < Bablu

146. (C)

147. (D)

148. (C)



Required distance = AE = AB + BE  
( $\therefore$  BE = CD)  
 $= 10 + 18$   
 $= 28$  kms.

149. (D) Angle between clock hands when opposite in direction =  $180^\circ$   
We have

$$\text{Angle} = \frac{11}{2}m - 30 \times 4$$

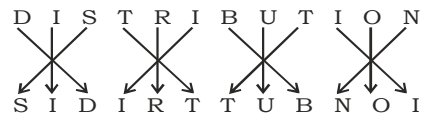
$$\text{or, } 180 = \frac{11}{2} \times m - 30 \times 4$$

$$\Rightarrow 180 + 120 = \frac{11}{2}m$$

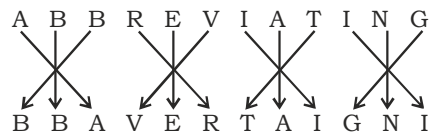
$$\Rightarrow m = \frac{600}{11} = 54 \frac{6}{11} \text{ min}$$

$$\therefore \text{Required time} = 4 : 54 \frac{6}{11}$$

150. (C) As,

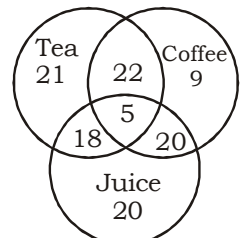


Similarly,



151. (A)

152. (A) There are 130 employees.

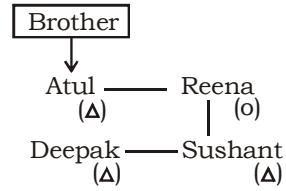


21 employees drink only the.  
15 employees do not drink any beverage.

153. (D) Clearly, while counting the numbers associated to the thumb will be 1, 9, 17, 25, ....

Here, Numbers are in the form of  $(8n + 1)$ .  
Since  $1994 = 249 \times 8 + 2$ , so 1993 shall correspond to the thumb and 1994 is the **index finger** while counting.

154. (B)





# KD Campus Pvt. Ltd

1997, OUTRAM LINE, KINGSWAY CAMP, DELHI - 110009

155.(A) 15th August, 2010 = 2009 years + from 1.1.2010 to 15.8.2010)  
odd days in 2000 years = 0  
Remaining 9 years = 2 leap years + 9 odd days  
= 11 odd days = **4 odd days**  
Now from 1.1.2010 to 15.8.2010 = 227 days  
= 32 weeks + 3 days = **3 odd days**  
  
Total odd days = 4 + 3 = 7 odd days.  
= 0 odd days.  
  
So, Given day is Sunday.

156. (C) The order is:  
Literary → Literature → **Litter** → Little  
→ Littoral  
157. (B)  
158. (C)  $4 \times 5 - 24 \div 12 + 8 = 14$   
 $\Rightarrow 4 \times 5 + 24 \div 12 - 8$   
 $\Rightarrow 20 + 2 - 8$   
 $\Rightarrow 14$   
Hence, option (C) satisfies the given equation.  
159. (D)  
160. (A) Idea → Writing → Book → Seller → Reader → Feedback.

## UP SI ANSWER KEY - 47

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