

**UP SI MOCK TEST - 58 (SOLUTION)**

81. (A) Let ₹  $x$  be lent at 10% per annum.  
 $\therefore$  ₹  $(1500 - x)$  is lent at 7% per annum

$$\text{Now, } \frac{x \times 10 \times 3}{100} + \frac{(1500 - x) \times 7 \times 3}{100} = 396$$

$$\Rightarrow 30x + 31500 - 21x = 39600$$

$$\Rightarrow 9x = 39600 - 31500$$

$$\Rightarrow x = \frac{8100}{9} = ₹ 900$$

82. (D) A : B : C : D

$$2 : 3 : 3 : 3$$

$$4 : 4 : 3 : 3$$

$$\frac{2 : 2 : 2 : 3}{16 : 24 : 18 : 27} \rightarrow 85$$

$$\begin{array}{ccc} \downarrow \times 60 & \downarrow \times 60 & \downarrow \times 60 \\ 1440 & 1620 & 5100 \end{array}$$

$$\text{Total B + D} = ₹ 3060$$

83. (A) ATQ,

Work done by A in 1 day = Work done by B in 3 days

	A	:	B
Time	1	:	3
Efficiency	3	:	1

Now total work =  $3 \times 2 + 9 \times 1 = 15$  units

Required time for A to complete the work

$$= \frac{15}{3} = 5 \text{ days}$$

Required time for B to complete the work

$$= \frac{15}{1} = 15 \text{ days}$$

84. (A)

CP	:	SP
$(100 - \text{Discount})$	:	$(100 + \text{Profit})$
$(100 - 4)$	:	$(100 + 35)$

$$\text{Total number of article} \leftarrow \frac{96}{16} : \frac{135}{15}$$

$$\text{Ratio of cost of 1 article} \leftarrow 6 : 9$$

85. (A) Let the rate =  $r$

ATQ,

$$\frac{400 \times 3 \times r}{100} + \frac{500 \times 4 \times r}{100} = 160$$

$$\Rightarrow 32r = 160$$

$$\Rightarrow r = 5\%$$

86. (A)  $P + Q \rightarrow 90$  Minutes  $\leftarrow \begin{array}{l} 2 \text{ units/min} \\ 3 \end{array}$   
 $Q + R \rightarrow 60$  Minutes  $\leftarrow \begin{array}{l} 3 \\ 4 \text{ units/min} \end{array}$   
 $P + R \rightarrow 45$  Minutes  $\leftarrow \begin{array}{l} 2 \\ 4 \end{array}$  Total capacity (in units) = 180

$$\text{Efficiency of } (P + Q + R) = \frac{2 + 3 + 4}{2}$$

$$= 4.5 \text{ units/min}$$

$$\text{Efficiency of } P = (4.5 - 3) = 1.5 \text{ units/min}$$

$$\text{Efficiency of } Q = (4.5 - 4) = 0.5 \text{ units/min}$$

$$\text{Efficiency of } R = (4.5 - 2) = 2.5 \text{ units/min}$$

$$\text{Required time for } P = \frac{180}{1.5} = 120 \text{ min}$$

$$\text{Required time for } Q = \frac{180}{0.5} = 360 \text{ min}$$

$$\text{Required time for } R = \frac{180}{2.5} = 72 \text{ min}$$

87. (D) Simple interest of 2 years = 20%  
 Compound interest of 2 years = 21%  
 Diff. between simple and compound interest

$$= 1\%$$

$$\downarrow \times 130$$

$$130$$

$$\therefore \text{Principal} = 130 \times 100 = ₹ 13000$$

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

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

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

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

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

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

89. (D)  $A \rightarrow 12$   
 $B \rightarrow 16$   
 $C \rightarrow 24$   
 $D \rightarrow 36$

144

$\begin{array}{l} \swarrow 12 \\ \swarrow 9 \\ \swarrow 6 \\ \swarrow 4 \end{array}$

$$\begin{array}{cccc} 1^{\text{st}} \text{ day} & 2^{\text{nd}} \text{ day} & 3^{\text{rd}} \text{ day} & 4^{\text{th}} \text{ day} \\ (12) & 2 + 9 & 12 + 9 + 6 & 12 + 9 + 6 + 4 \end{array}$$

KD  
**Campus**  
**KD Campus Pvt. Ltd**

1997, OUTRAM LINE, KINGSWAY CAMP, DELHI - 110009

Total work in 4 days  
= 12 + 21 + 27 + 31  
= 33 + 58  
= 91 units

In 4 days total  
Work done A (B, A), (A + B) and (A+B+C +D)  
Remaining work = 144 - 91 = 53

Remaining work done by (A+B+C+D) in  $\frac{53}{31}$

Total time taken 144 units

Work = 5  $\frac{22}{31}$  days.

90. (B)  $\therefore$  Distance between 21 posts  
= (21 - 1)  $\times$  50 = 1000 m  
 $\therefore$  Speed of train = 1 km/min = 60 km/h

91. (B) SI =  $\frac{15000 \times 9 \times 2}{100} = ₹ 2700$

$$CI = 12000 \left[ \left( 1 + \frac{8}{100} \right)^2 - 1 \right]$$

$$= 12000 \left[ \left( \frac{27}{25} \right)^2 - 1 \right]$$

$$= 12000 \left[ \frac{729 - 625}{625} \right]$$

$$= 12000 \times \frac{104}{625} = ₹ 1996.8$$

$\therefore$  Total interest earned  
= ₹ (2700 + 1996.8) = ₹ 4696.8

92. (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

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

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

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

93. (B) Let the number of boys be  $x$  and that of girls be  $y$ .

Then, total score of boys = 71  $x$   
and total score of girls = 73  $y$

$$\therefore \frac{71x + 73y}{(x+y)} = 71.8$$

$$\Rightarrow 71x + 73y = 71.8x + 71.8y$$

$$\Rightarrow 0.8x = 1.2y \Rightarrow \frac{x}{y} = \frac{1.2}{0.8} = \frac{3}{2}$$

$\therefore$  Percentage of girls in the class

$$= \frac{2}{5} \times 100 = 40\%$$

94. (C) Let the work is completed in  $x$  days.

Work done by (P + Q) in 1 day =  $\frac{1}{10}$  work

Work done by (Q + R) in 1 day =  $\frac{1}{18}$  work

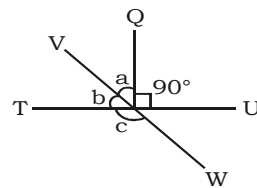
P's 5 day's work + Q's 10 day's work + R's 15 day's work = 1

(P + Q)'s 5 day's work + (Q + R)'s 5 day's work + R's 10 day's work = 1

$$\frac{5}{10} + \frac{5}{18} - \frac{10}{x} = 1$$

$$\Rightarrow x = 45$$

95. (D)



$$\angle a = 36^\circ$$

$$\angle b = 54^\circ$$

$$\therefore \text{value of } \angle c = 180^\circ - \angle 54$$

$$\angle c = 126^\circ$$

96. (C) AB || CD || PQ (Given)

Let AB =  $a$ , PQ =  $b$ , CD =  $c$

$$\therefore \frac{1}{b} = \frac{1}{a} + \frac{1}{c}$$

$$\Rightarrow \frac{1}{b} = \frac{1}{12} + \frac{1}{18}$$

$$\Rightarrow \frac{1}{b} = \frac{3+2}{36}$$

$$\Rightarrow \frac{1}{b} = \frac{5}{36} \Rightarrow b = \frac{36}{5} \text{ cm}$$

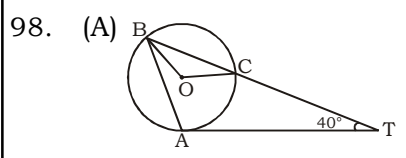
97. (C) 5 tan  $\theta$  = 4

$$\tan \theta = \frac{4}{5}$$

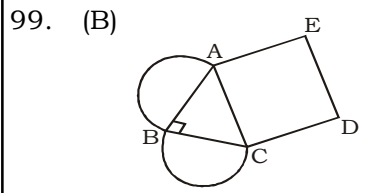
$$\therefore \frac{5 \sin \theta - 3 \cos \theta}{5 \sin \theta + 3 \cos \theta} = \frac{5 \sin \theta - 3 \cos \theta}{\frac{5 \sin \theta + 3 \cos \theta}{\cos \theta}}$$

$$= \frac{5 \tan \theta - 3}{5 \tan \theta + 3} = \frac{5 \times \frac{4}{5} - 3}{5 \times \frac{4}{5} + 3}$$

$$= \frac{4 - 3}{4 + 3} = \frac{1}{7}$$



$\angle CAT = 44^\circ$   
 $\angle BTA = 40^\circ$   
 $\angle ACT = 180^\circ - 44^\circ - 40^\circ = 96^\circ$   
 $\angle CAT = \angle CBA = 44^\circ$   
 $\angle BAC = 180^\circ - 84^\circ - 44^\circ = 52^\circ$   
 $\therefore$  Angle on Arc = BC =  $2 \times 52^\circ = 104^\circ$



Let AB = BC = x  
 then AC =  $\sqrt{2}x$   
 But AC =  $\sqrt{128} = 8\sqrt{2}$  cm  
 $\sqrt{2}x = 8\sqrt{2}$   
 $\Rightarrow x = 8$  cm  
 Areas of semicircles  
 $= \frac{1}{2} \pi \left(\frac{x}{2}\right)^2 + \frac{1}{2} \pi \left(\frac{x}{2}\right)^2$   
 $= \frac{1}{2} \pi (2 \times 16)$   
 $= 16 \pi \text{ cm}^2$

100. (B) Let  $a = b = c = 2$ , then  $2s = 6$   
 $s = 3$   
 $\therefore (s - a)^3 + (s - b)^3 + 3(s - a)(s - b)c$   
 $= (3 - 2)^3 + (3 - 2)^3 + 3(3 - 2)(3 - 2) \times 2$   
 $= 1 + 1 + 3 \times 2 = 8$   
 $= c^3$

101. (D) Assume  $\theta = 45^\circ$   
 then  $4m = 1 \times \left(1 + \frac{1}{\sqrt{2}}\right)$   
 $m = \frac{\sqrt{2} + 1}{4\sqrt{2}}$  and  $n = \frac{\sqrt{2} - 1}{4\sqrt{2}}$

$$\therefore m^2 - n^2 = \frac{1}{32} [(\sqrt{2} + 1)^2 - (\sqrt{2} - 1)^2]$$

$$= \left[\frac{1}{32}(4\sqrt{2})\right] = (m^2 - n^2) = \frac{1}{32}$$

from options-  
 $mn = \frac{\sqrt{2} + 1}{4\sqrt{2}} \cdot \frac{\sqrt{2} - 1}{4\sqrt{2}} = \frac{1}{32}$   
 $\therefore (m^2 - n^2) = mn$

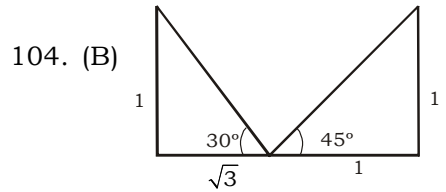
102. (B) Let the length of train be L  
 ATQ,

$$\frac{L}{40 \times \frac{5}{18}} = 9$$

$$\Rightarrow L = \frac{9 \times 40 \times 5}{18} \text{ m}$$

$$\Rightarrow L = 100 \text{ m}$$

103. (B)  $N = 270 \times 126 \times 324 \times 55$   
 $= 2^4 \times 3^9 \times 5^2 \times 7 \times 11$   
 $\therefore$  maximum value of m = 9



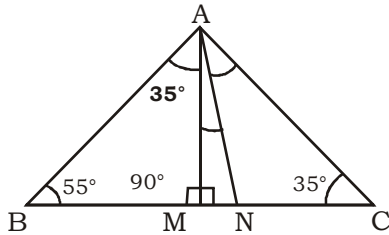
ATQ,  
 1 unit = 2.5m  
 $(\sqrt{3} + 1)$  units =  $2.5(\sqrt{3} + 1)$   
 $= 2.5 \times 2.73$   
 $= 6.825$  m  
 $\therefore$  Width of the river = 6.83m

105. (C) Let Speed of the boat =  $x$  km/h  
 and, Speed of stream =  $y$  km/h  
 $x + y = 8$   
 $x - y = 4$   
 $\hline 2x = 12$   
 $\Rightarrow x = 6$  km/h

106. (B)  $\sin A = 1 - \sin^2 A = \cos^2 A$   
 $\Rightarrow \sin^2 A = \cos^4 A$   
 and  $\cos^2 A + \cos^4 A$   
 $\cos^2 A + \sin^2 A = 1$

107. (C) Let the speed =  $x$  km/hr  
 A.T.Q.,  
 $\frac{11}{2} \times x = (x + 6) \times 5$   
 $\frac{1}{2} \times x = 30$   
 $x = 60$  km/hr

108. (A)



In  $\triangle ABM$ ,  
 $\angle ABM + \angle BMA + \angle MAB = 180^\circ$   
 $\Rightarrow 55 + 90 + \angle MAB = 180^\circ$   
 $\Rightarrow \angle MAB = 35^\circ$

In  $\triangle ABC$ ,  
 $55 + 35 + \angle BAC = 180^\circ$   
 $\Rightarrow \angle BAC = 90^\circ$

AN bisects of  $\angle A$ , then  
 $\angle BAN = \angle CAN = 45^\circ$   
 Now,  $\angle BAM + \angle MAN = 45^\circ$   
 $\Rightarrow 35 + \angle MAN = 45^\circ \Rightarrow \angle MAN = 10^\circ$

109. (C) Let the speed of boat along the current and against the current be  $x$  km/hr and  $y$  km/hr respectively.

A.T.Q.,

$$\begin{aligned} x + y &= 16 \\ x - y &= 10 \\ \hline 2x &= 26 \end{aligned}$$

$$x = 13, y = 3.$$

$\therefore$  Speed of current = 3 km/hr.

110. (B) Let the age of mother and son be  $x$  and  $y$  respectively.

A.T.Q.,

$$\frac{x-10}{y-10} = \frac{5}{3} \Rightarrow 3x - 5y = 20 \quad \dots(i)$$

$$\text{and, } \frac{x-10}{y-10} = \frac{3}{1} \Rightarrow x - 3y = -20 \quad \dots(ii)$$

From eq(i) and eq (ii)

$$x = 40 \text{ and } y = 20.$$

$$\therefore \text{ Required ratio} = y : x = 20 : 40 = 1 : 2$$

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

A.T.Q.,

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

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

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

$$112. (B) \frac{6x}{2x^2 + 5x - 2} = 1$$

On dividing by  $x$  in numerator and denominator,

$$\Rightarrow \frac{6}{2x + 5 - \frac{2}{x}} = 1$$

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

$$\Rightarrow x - \frac{1}{x} = \frac{1}{2}$$

$$\text{Now, } x^2 + \frac{1}{x^2} = \left(\frac{1}{2}\right)^2 + 2$$

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

$$\Rightarrow x^2 + \frac{1}{x^2} = \frac{9}{4}$$

$$\Rightarrow x^2 + \frac{1}{x^2} + 2 = \frac{9}{4} + 2$$

$$\Rightarrow \left(x + \frac{1}{x}\right)^2 = \frac{17}{4} \Rightarrow x + \frac{1}{x} = \frac{\sqrt{17}}{2}$$

$$\text{Now, } x^3 + \frac{1}{x^3} \Rightarrow \left(\frac{\sqrt{17}}{2}\right)^3 - 3 \times \frac{\sqrt{17}}{2}$$

$$\Rightarrow \frac{17\sqrt{17}}{8} - \frac{3\sqrt{17}}{2} = \frac{5\sqrt{17}}{8}$$

$$113. (C) \text{ Cost of 1 kg of mangoes} = \frac{456}{19} = ₹24$$

$$\text{Cost of 1 kg of apples} = 2 \times 48 = ₹96$$

$$\text{Cost of 1 kg of almonds} = \frac{50 \times 96}{8} = ₹600$$

$$\text{Cost of 3 kg of almonds and 4 kg of apples} = 3 \times 600 + 4 \times 96 = ₹2184$$

114. (B) Putting  $x = 3, y = 7$ , number 67127y76x2 is divisible by 88.

$$\text{Now, } 7x - 7y = 7 \times 3 - 2 \times 7 \Rightarrow 7x - 7y = 21 - 14 = 7$$

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

$$= \sqrt{-\sqrt{3} + \sqrt{3 + 8\sqrt{4 + 3\sqrt{3}}}}$$

$$= \sqrt{-\sqrt{3} + \sqrt{3 + 8(2 + \sqrt{3})}}$$

$$= \sqrt{-\sqrt{3} + \sqrt{3 + 16 + 24\sqrt{3}}}$$

$$= \sqrt{-\sqrt{3} + 4 + \sqrt{3}}$$

$$= 2$$

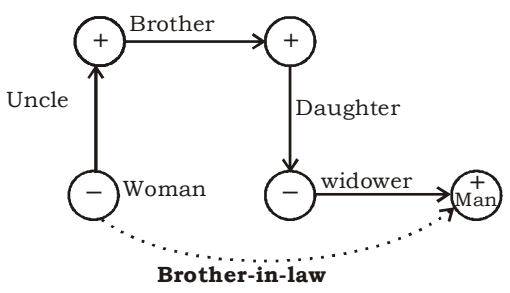
**KD**  
**Campus**  
**KD Campus Pvt. Ltd**

1997, OUTRAM LINE, KINGSWAY CAMP, DELHI - 110009

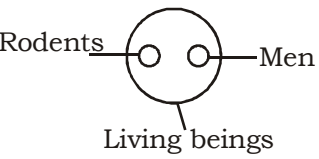
116. (A) Volume of sphere =  $\frac{4}{3} \pi (6)^3$   
 =  $288\pi \text{ cm}^3$   
 Let the radius of wire be  $r$   
 volume of wire =  $\pi r^2 \cdot 144 \times 100$   
 ATQ,  $288\pi = 144 \times 100 \times \pi r^2$   
 $\Rightarrow \frac{2}{100} = r^2$   
 $\Rightarrow r = 0.2 \text{ cm}$
117. (A) The required average  
 =  $\frac{2250}{5} = 450$
118. (A) The required Percent =  $\frac{340}{2010} \times 100$   
 = 16.9%
119. (A) The required ratio =  $\frac{370+250}{420+430}$   
 =  $\frac{620}{850} = \frac{62}{85} = 62 : 85$
120. (C) The required percent  
 =  $\frac{430}{(310+370+420)} \times 100$   
 =  $\frac{430}{1100} \times 100 = 39.1\%$
121. (D) As, grain store in warehouse similarly,  
 water store in dam.
122. (A) As,  $\begin{matrix} \text{BDFH} & \text{YWUS} \\ \text{Reverse} \end{matrix}$   
 Similarly,  
 $\begin{matrix} \text{JLNP} & \text{QOMK} \\ \text{Reverse} \end{matrix}$
123. (C)  $18 \Rightarrow (18 \times 2) - 6 = 30$   
 $36 \Rightarrow (36 \times 2) - 6 = 66$
124. (B) Being erudite is a trait of a professor  
 and being imaginative is a trait of an inventor.
125. (B)  $\begin{matrix} \text{W} & \text{V} & \text{U} & \text{N} & \text{M} & \text{L} & \text{H} & \text{G} & \text{F} \\ \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\ -1 & -1 & & -1 & -1 & & -1 & -1 & \end{matrix}$   
 $\begin{matrix} \text{D} & \text{B} & \text{A} \\ \downarrow & \downarrow & \downarrow \\ -2 & -1 & \end{matrix}$
126. (D)  $1629 \Rightarrow 1 + 6 + 2 = 9$   
 $3418 \Rightarrow 3 + 4 + 1 = 8$   
 $2349 \Rightarrow 2 + 3 + 4 = 9$   
**1834**  $\Rightarrow 1 + 8 + 3 \neq 4$
127. (A) Except "High-up", others are antonym  
 of each other.

128. (B)  $\begin{matrix} \text{C} & \text{A} & \text{R} & \text{G} & \text{C} & \text{O} & \text{K} & \text{E} & \text{L} & \text{O} & \text{G} & \text{I} & \text{S} & \text{I} & \text{F} \\ \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\ -3 & -3 & -3 & -3 & -3 & -3 & -3 & -3 & -3 & -3 & -3 & -3 & -3 & -3 & -3 \\ \uparrow & \uparrow & \uparrow & \uparrow & \uparrow & \uparrow & \uparrow & \uparrow & \uparrow & \uparrow & \uparrow & \uparrow & \uparrow & \uparrow & \uparrow \\ +4 & +4 & +4 & +4 & +4 & +4 & +4 & +4 & +4 & +4 & +4 & +4 & +4 & +4 & +4 \\ \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\ +2 & +2 & +2 & +2 & +2 & +2 & +2 & +2 & +2 & +2 & +2 & +2 & +2 & +2 & +2 \end{matrix}$
129. (A)  $\begin{matrix} 100 & 50 & 52 & 26 & 28 & 14 & 16 & 8 \\ \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\ +2 & +2 & +2 & +2 & +2 & +2 & +2 & +2 \\ \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\ +2 & +2 & +2 & +2 & +2 & +2 & +2 & +2 \end{matrix}$
130. (B) As,  $(17 + 19) \div 6 = 6$   
 and,  $(42 + 36) \div 6 = 13$   
 Similarly,  $(64 + 50) \div 6 = 19$
131. (C)  $7 \times 2 - 1 \rightarrow 13$   
 $13 \times 2 - 1 \rightarrow 25$   
 $25 \times 2 - 1 \rightarrow 49$   
 $49 \times 2 - 1 \rightarrow 97$   
 $97 \times 2 - 1 \rightarrow 193$
132. (C) Total number of triangle is 28.
133. (D)  $\begin{matrix} | & | & | & | & | \\ \text{C} & \text{E} & \text{A} & \text{B} & \text{D} & \text{F} \end{matrix}$   
 Hence, D is sitting left of F.
134. (C)  $wxy/wxx/ywx/xy$
135. (B)  $(24+20) - 2(24-20) = 44 - 8 = 36$   
 $(15 + 11) - 2(15-11) = 26 - 8 = 18$   
 $(55 + 40) - 2(55-40) = 95 - 30 = 65$
136. (A) Total number of odd days since 25  
 June to 15 August.  
 =  $5 + 31 + 15 = 51$   
 Remaining =  $\frac{51}{7} = 2$   
 Hence, Manoj birth day will be Friday.
137. (B)
- Hence, In place of 9 at K.
138. (D) Neither conclusion I nor II follow.
139. (C)

140. (A)



141. (C)



142. (A)

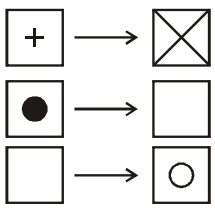
Let peacocks  $y$  and  $x$  deers  
 $x + y = 120$   
 $\Rightarrow y = 120 - x$  .....(i)  
 and,  
 $4x + 2y = 320$  .... (ii)  
 From eq. (i) and (ii)  
 $4x + 2(120 - x) = 320$   
 $\Rightarrow 4x + 240 - 2x = 320$   
 $\Rightarrow 2x = 80$   
 $\Rightarrow x = 40$   
 and,  $y = 80$   
 Hence, total number peacocks = 80

143. (D)

144. (B) "2" Represents those teachers who are social workers.

145. (A)

146. (A) Opposite faces are



Option (A) and be formed by folding.

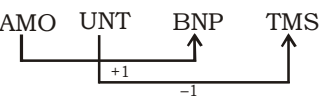
147. (D)

$$672 \div 12 + 17 \times 21 - 400 = 13$$

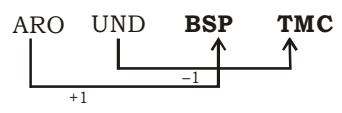
$$\Rightarrow 56 + 357 - 400 = 13$$

$$\Rightarrow 13 = 13$$

148. (C)



Similarly,



149. (C)

150. (B)

151. (D) Happy birth day either 12 or 13.

152. (D) Let the age of the wife =  $x$   
 Then, the age of the man =  $x + 3$

$$\text{Age of the son} = \frac{x + 3}{4}$$

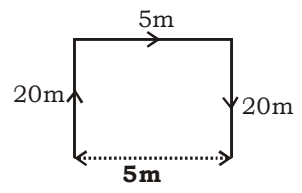
A.T.Q,

$$\frac{x + 3}{4} + 3 = 15$$

$$x = 45$$

$\therefore$  Age of his wife = 45 years

153. (C)



154. (D)

$$155. (A) \text{ Required angle} = \left| 30 \times 3 - \frac{24 \times 11}{2} \right|$$

$$= |90 - 132|$$

$$= 42^\circ$$

Hence, required angle =  $42^\circ$

156. (A)

$$S.P = ₹4140, \quad P\% = 15$$

$$CP = 4140 \times \frac{100}{115} = ₹3600$$

$$\text{New S.P.} = 3600 \times 1.25 = ₹4500$$

157. (B)

c d **d** ab **b**/cd **d** abb/**c** dda **b** d

158. (B)

159. (A)

$$\frac{27}{+3-1} : 8 :: \frac{12}{+3-1} : 3$$

160. (A)

**UP SI ANSWER KEY - 58**

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

