Difference in SP = Rs. (10400 - 10350) = Rs. 50
If the difference is Rs. 50, then CP = Rs.100
If the difference is Rs. 40, then CP = $\frac{100*40}{50}$ = Rs. 80
Hence, the cost price of each pen is Rs. 80.

Q.13)
Ans) d
Exp) Total number of member enrolled in 2007 = 160% of (150 + 70) $\frac{220*160}{100}$ = 352

Q.14)
Ans) a
Exp) Required ratio = $\frac{No.of\ members\ in\ Project\ A\ \&\ B\ in\ 2003}{No.of\ members\ in\ Project\ A\ \&\ B\ in\ 2006} * 100$
= $\frac{60+210}{70+150}$ = $\frac{270}{220}$ = 27: 22

Q.15)
Ans) d
Exp) Required % = $\frac{No.of\ members\ in\ Project\ A\ in\ 2003}{No.of\ members\ in\ Project\ B\ in\ 2006} * 100$
= $\frac{60}{150}$ * 100 = 40%

Q.16)
Ans) b
Exp) Total number of members enrolled in Project B in 2005 and 2006 together = 240 + 150 = 390
Total number of members enrolled in Project A from 2002 and 2006 = 170 + 70 = 240
Difference = 390 – 240 = 150
Required % more = $\frac{150}{240}$ * 100 = 62.5%

Q.17)
Ans) c
Exp) Total present of P and Q = 15 * 2 + 10 = 40 years
Total present age of P, Q and R = 20 * 3 = 60 years
P+ Q + R = 60
(Present age) R =20 years.
R age after 10 years = 20 + 10 = 30 years.

Q.18)
Ans) c
Exp) Let distance = d
Let A meet B after x hours from point P
Speed of the first man = $\frac{d}{4}$
Speed of the second man = $\frac{d}{4}$
=> $\frac{d}{4}$ * x + $\frac{d}{4}$ (x + 2) = d
$\frac{x}{4}$ + $\frac{x+2}{4}$ = 1 => x + x + 2 = 4
2x = 2 => x = 1 hour