

**Question #72****Answer is C**

In part (ii) you are given that  $\mu = 20$ . In part (iii) you are given that  $a = 40$ . In part (iv) you are given that  $v = 8,000$ . Therefore,  $k = v/a = 200$ . Then,

$$\bar{X} = \frac{800(15) + 600(10) + 400(5)}{1800} = \frac{100}{9}$$

$$Z = \frac{1800}{1800 + 200} = 0.9$$

$$P_c = 0.9(100/9) + 0.1(20) = 12.$$