ANSWERS

1. $n=4,\ p=\frac{1}{2},\ q=\frac{1}{2};\ \frac{15}{16}$

2. 0.3456

3. 3/16

4. (i) 0.246, (ii) 0.345

5. (i) 0.5905, (ii) 0.3281, (iii) 0.0815

6. 99.83

7. 0.3585, 0.3773, 0.1887, 0.0596

8. (i) $^{20}C_1\left(\frac{19}{20}\right)^{19}\left(\frac{1}{20}\right)$

(ii) $\sum_{r=0}^{5} {}^{20}C_r\left(\frac{19}{20}\right)^{20-r}\left(\frac{1}{20}\right)^{r}$

9. 45927/50000

10. 600

ANSWERS

1. (i) 2, (ii) $\frac{2}{3e^2}$

2. 0.0008

3. $P(0)=0.2636, P(3)=0.1041, P(>3)=0.1506$

4. 0.865

5. 0.08