B.B. sathish kumar 19BE (4188 statistics 2 probability

$$= \frac{13}{52} \times \frac{13}{51} \times \frac{13}{50} = \frac{169}{10200}$$

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a.) plaction (or) Drama) = 
$$p(Action) + p(Drama)$$

$$= \frac{42}{144} + \frac{36}{144} = \frac{78}{144}$$

b.) 
$$P(comedy(or) horocon) = P(comedy) + P(horocon)$$

$$= \frac{54}{144} + \frac{12}{144} = \frac{66}{144}$$

$$P(A) = \frac{1}{2} \qquad P(B) = \frac{1}{2}$$

$$P(\frac{Black}{B}) = \frac{5}{8}$$

$$P(\frac{Black}{B}) = \frac{P(B) \times P(\frac{Black}{B})}{P(A) \times P(\frac{Black}{B})}$$

$$= \frac{1}{2} \times \frac{7}{11}$$

$$(\frac{1}{2} \times \frac{5}{8}) + (\frac{1}{2} \wedge \frac{7}{11})$$

$$= \frac{7}{22} = \frac{7}{16} + \frac{7}{22} = \frac{7}{10} + \frac{112}{352}$$

$$= \frac{24.64}{48.84}$$

6.) 
$$Z = x - 10$$
 $6$ 
 $0.675 = x - 350870$ 
 $12405$ 
 $x = 350870 + (0.675 \times 12405)$ 
 $x = 359237.045$ 
 $x = 359237.045$ 
 $x = 359237.045$ 

4.) 450 Applications in I howr By poisson Distribution

$$\alpha \cdot \lambda = 450$$

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b.) 
$$p(x=x)=e^{-15/2} \cdot (15/2)^{17}$$

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