Name: ROAHIT.S

(P(BUD) = 60/m

(ans) 9 - (a) 9 + (a) 9 - aug Roll. No.: 19BEC4166

Statistics Answers

1) Total no. of cords = 52

$$n(s) = 52(3) = \frac{52 + 51 \times 50}{3 + 2 \times 1} = 88400$$

$$E = 13c' \times 13c' \times 13c'$$

$$= 13 \times 13 \times 13$$

$$= 13 \times 13 \times 13$$

$$= 2197$$

$$= n(E)$$

$$= n(E)$$

$$= 169$$

$$88400$$

$$= 6800$$

Repondents said like Action movies = 42 % -> P(A) 2) Repondents like comedy movies = 54% -> P(B) Repordents like Drama movier = 36%. >> P(c) Repordente like Horror movier = 12% -> P(0)

P(A) > P ( Black ) + P(A) X P / Black

a) Elike sithe action or drama.

$$= 42 + 36 - 0$$

$$P(AUC) = 78/100$$

b) tike either comely or horson.

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

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

$$\frac{5}{16} + \frac{7}{21} = \frac{7}{22} = \frac{7}{22} = \frac{7}{22} = \frac{7}{22} = \frac{352}{222} = \frac{7}{22} = \frac{352}{222} = \frac{7}{2464}$$

4) Given,

450 application in 1 hours.

By poisson distribution.

a) 
$$\lambda = \frac{450}{60}$$

$$P(X=2) = e^{-15/2} \cdot (15/2)^{10}$$

= 0.0858

b) 
$$p(x=x) = e^{-15/2} \cdot (19/2)^{17}$$

- 0.6321

· x = 350 870 + (0, 675 + 12405)

x = 359237.045

75 1 ponentile = 359287.045.