Took 1

IST 7:1 Z: L 3 (Pass) | Fail 10

Total students: 4+10+12+5+3 = 34

= 4/34 = 0.11764 = 10/34 = 0.29411 = 12/34 = 0.35294 = 5/34 = 0.147058P(mark = 1st P (Mark = 2:1) P (Mark = 2:2) P (mark = 3)

=(4+10+12+5)/34 P (Mark = -fail) 31/34 = 0.91176 Pass

P(Pass) = Pass/tola) = 31/34 = 091176 P(Pass, Female) = Females pass = 11/12 = 091666

h) P(sunny) = 0.3 + 0.1 = 0.41) P(hot) = 0.3 + 0.1 = 0.4

P(Not I surny) = hot/surny = 0.3/0.4=0.75 P(rainy I cold) = rain/cold = 0.5/0.6=08333

5) 
$$P(79|x) =$$
 $x = 0.2 = 0.3 = 0.5$ 
 $-x = 0.4 = 0.1 = 0.5$ 
 $-x = 0.4 = 0.1 = 0.5$ 
 $-x = 0.6 = 0.4 = 0.0$ 
 $-x = 0.6 = 0.6$ 

F(sun) =  $P(w = 5un)$ 
 $-x = 0.65$ 
 $-x = 0.$ 

Task 2

HAMBORGE EATER = ME

a) 
$$P(HE | KJ) = 0.9$$
 $P(KJ) = 1/100,000$ 
 $P(HE) = 0.5$ 
 $P(KJ | HE) = 2/100,000$ 
 $P(A) = 1/10000$ 
 $P(A) = 1/10000$ 
 $P(A) = 0.99$ 
 $P(A| + 1-A) = 0.95$ 
 $P(A| + 1-A) = 0.95$ 

There 
$$\int_{0}^{\infty} r$$
:

(b)  $P(-3) = \frac{9999}{10,000} = 0.9999$ 
 $= 1 - P(3)$ 
 $= 1 - P(3)$ 
 $= 1 - P(3)$ 
 $= 1 + 10^{-6}$ 
 $= 1 + 10^{-6}$ 
 $= 1 + 10^{-6}$ 
 $= 1 + 10^{-6}$ 
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 $P(t | \lambda) = P(t / \lambda) / P(\lambda) = 0.99$   $P(\tau | \tau \lambda) = P(\tau \lambda \tau \lambda) / P(\tau \lambda) = 0.95$  $P(\lambda) = 1/10,000$ 

Task 26)