Probability
Q1. Probability that a student like both sobjects.
Arus: Total students = 200
Both maths and science = 50
P (Muth or science) = 180 = 0.25.
P (Muth or science) = 180 = 0.25.
Od. Probability that Hem is from Machine B firen it's
defective (Raye's Theorem).
Ans: Let A = Machine A, B = Machine B
P(A) = 0.6
P(B) = 0.4
P(D/A) = 0.05
P(D,B) = 0.10
P(D) = P(A) P(D/A) + P(B) P(D/R) = 0.6 × 0.05+
0.4 x 0.10= 0.0
(BID) = P(B) P(DIB) = 0.4 x 0.10 = 0.5714
P(D) 0.07
03. Probability of orange.
J
P (Dianae) - 4 - 4 - 0.4
P (Diange) - 4 = 4 - 0.4 6+4 10
Of. Probability Person has condition when positive
04. Probability person has condition given positive test (Rayes).
Test begins

801.0 Java QS. Probability of coding in Python or Ans: P(Python U Java) = 100+100-50 - 230 300 Gb. Probability of rain and carrying imbrella Ano: P(Rain O umbrella) = 0.6 x 0.9 0.54 Qt. Probability student studied given they passed. Ano: P (Studied | Passed) = 0. A Probability sum of two dice is 7. Favorable outcomes = (1,6), (2,5), (3,4) Sum = 7)= 0.1664.

Probability of red or green hall. Qq. Red U GReen) -Ans: Student who uses putic transport. G10. P(student a Public) = 0.3 x 0.6 drink. Likes at least Dhu (Tea U coffee) = 0.4 + 0.5 - 0.2 Q12. Probability of exactly 2 heads in 3 Hips. x 10.2) = 3x 0.22x 0.2 (1)13. Probability gave positive feedback given second purchase. P (Pos) - 0.5 Ans: (Purhasel Pos) = 0.6 Purchase) = 0.5x 0.6 = 0.3 (Purchase) - 0.3 purchase)

h	QH. Liker veg or non-veg
v	Ans: 1 (veg U Non-veg) = 0.4 + 0.35 - 0.2
F	-17
¥	= 0.15.
Th.	
	(115. Repeat buyer and loyally member.
-	
- 4	Ansi P= 200 = 0.2
97	1000
k	
9	alb. hower risk of heart disease.
•	of March Wiscons
-	A . O(1-20)
	Ans: P(hower) = 0.6x 0.9+0.4x0.1=0.54+0.04
—	= 0.08.
-	
_:	DIT. Enrolled in 18 or Math.
_; _	DIT. Enrolled in 18 or Math.
_	
_	Ans: 250+100+150 = 500 - 1.0
- '. - '. - '.	Ano: 250+100+150 = 100 - 1.0
- '. - '. - '.	Ans: 250+100+150 = 500 - 1.0
	Ans: 250+100+150 = 500 - 1.0 100 100 100 100 100 100 100
	Ano: 250+100+150 = 100 - 1.0
	Ans: 250+100+150 = 500 = 1.0 100 100 100 100 100 100 100
	Ans: 250+100+150 = 500 = 1.0 100 100 100 100 100 100 100
	Ans: 250+100+150 = 500 - 1.0 100 100 100 100 100 100 100
	Ans: 250+100+150 = 500 - 1.0 (DO 700 [CID. Promotion agreen excellent performance. Ans: P(Promotion) Excellent) = 0.5 [CID. Took quiz and shared recolts.
	Ans: 250+100+150 = 500 = 1.0 100 100 100 100 100 100 100
	Ans: 250+100+150 = 500 - 1.0 (DO 700 [CID. Promotion agreen excellent performance. Ans: P(Promotion) Excellent) = 0.5 [CID. Took quiz and shared recolts.

020. Owns smartphone or tablet.
. Arvs: 0.6+ 0.4 - 0.05= 0.75.
GDI. Visitz and purchases.
Ano: 0,7x0,5 = 0,35
Qdd. Satisfied and production.
Ans: P= 100 = 0.5
1000
Bas. Preten A or B.
Ans: 0.5+0.3-0.2 = 0.6
Q24. Exects in at least one Jobject.
Aws: 0.4 + 0.3 - 0.15 = 0.55.

