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Question 1

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a. If two events, A and B, are such that P(A) = 0.3, P(B) = 0.5, and P(A?B) = 0.15, find the Following

i) P(A|A ? B) ii) P(A|A ? B) iii) P(A ? B|A ? B)

4 M

b. An e? commerce company has three delivery boys A, B and C who delivers 30%, 40% and 30% of items daily from the warehouse. It is observed that they take more time than the expected with probabilities 5%, 10% and 3% respectively.

- a). Find that the probability that the delivery is always delayed by the company.
- b). The probability that the delay in delivery is by A







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Qtext:-

a. Let A be an event of a student passing the examination and B be the event of getting preplacement offer(PPO) with probabilities 3/4 and 1/8 respectively in a university. Then find the probability that a student

i) passing the examination and also getting PPO

ii) failing in the examination but getting PPO

iii) neither passing the examination nor getting PPO

4 M

b. Consider the following data and answer the questions if possible.

Otherwise state reasons. 3 M

Marks (X)	25	35	45	55	65	75
Number of Students	10	20	25	35 ·	5	5
Grade	Ε	D	С	В	Δ	A+

i).Find P(X > 55)

ii).Find P(X < 35)

iii).Find P(35 < X < 65)

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