



**SECI1013: DISCRETE STRUCTURE
QUIZ (3)**

Name : _____
Student ID : _____ Section : _____
Date : _____

Marks
10

QUESTION 1

A math teacher gave her class two tests. 75% of the class passed the first test and 80% of the class passed the second test. Given that 85% of those that passed the first test also passed the second test. What is the probability that a student passed the first test given that the student passed the second test?

(4 marks)

QUESTION 2

Three different factories produce a certain automobile part. In a supply of 240 of the parts, 80 were obtained from the first factory, 40 from the second factory, and 120 from the third factory. Table 1 shows the probability that a component is defective for each factory.

Table 1

Factory	1	2	3
Defective	0.02	0.05	0.03

- What is the probability that a part chosen at random from the 240 is defective?
- If the chosen part is defective, what is the probability that it came from the first factory?

(6 marks)