

A

قسم هندسة تقنيات الحاسوب / المرحلة الثانية – امتحان مادة الرياضيات الهندسية

الاسم الكامل للطالب: _____

الشعبة: _____ **Guidance**

1. Read each question carefully before you begin answering it.
2. Check your answers seem right.
3. Always show your workings.

ملاحظة الإجابة على ورقة الأسئلة

Q1: We know, $P(A) = P(A \cap B) / P(B/A)$ and (5-points)

$$P(A) + P(B) = P(A \cap B) + P(A \cup B)$$

If $P(A) = 0.3$, $P(B/A) = 0.7$ and $P(A \cup B) = 0.3$ then find $P(B)$?

A

Q2: A fair dice is numbered from 1 to 6. The dice is rolled twice.

(a) Draw a sample space diagram to show the possible outcomes.

(2-points)

(b) Work out the probability that the number obtained on the first roll is more than double the score on the second roll.

.....
(3-points)

Q3: Arthur flips a coin and rolls an ordinary six sided dice.

(a) Complete the table to show all the possible outcomes.

	1	2	3	4	5	6
Tails	T1	T2				
Heads						

(2-points)

(b) Find the probability of a tail and a 6.

.....
(1-point)

(c) Find the probability of a head and a number greater than 2.

.....
(1-point)

(d) Find the probability of a tail and a square number.

.....
(1-point)