



Philadelphia University
Faculty of Engineering

Marking Scheme

Examination Paper

Department of Communication & Electronics Engineering

Probability and Random Variables

First Quiz

First semester

Date: 06/11/2020

Section 1

Weighting 5% of the module total

Lecturer:

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Marking Scheme
Probability and Random Variables (650364)

The presented quiz questions are organized to overcome course material through 1 question.
The *all questions* are compulsory requested to be answered.

Marking Assignments

Question 1: This question is attributed with 5 marks if answered properly,

Solution

Gender	BR	BL	Total
M	70	20	90
F	100	10	110
Total	170	30	200

- a) $P(F) = \frac{110}{200} = \frac{11}{20}$
- b) $P(M \cap BR) = \frac{70}{200} = \frac{7}{20}$
- c) $P(F|BR) = \frac{100}{170} = \frac{10}{17}$
- d) $P(M|BL) = \frac{20}{30} = \frac{2}{3}$
- e) $P(BL|F) = \frac{10}{110} = \frac{1}{11}$