

Office Use Only						

Semester One 2017 Examination Period

Examination 1 enou						
Faculty of Business & Economics						
EXAM CODES:	ETCXXXX					
TITLE OF PAPER:	Advanced Bean Countin	g				
EXAM DURATION:	2 hours writing time					
READING TIME:	10 minutes					
THIS PAPER IS FOR STUDENTS STUDYING AT: (tick where applicable) □ Caulfield						
During an exam, you must not have in your possession any item/material that has not been authorised for your exam. This includes books, notes, paper, electronic device/s, mobile phone, smart watch/device, calculator, pencil case, or writing on any part of your body. Any authorised items are listed below. Items/materials on your desk, chair, in your clothing or otherwise on your person will be deemed to be in your possession.						
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Failure to comply with the above instructions, or attempting to cheat or cheating in an exam is a discipline offence under Part 7 of the Monash University (Council) Regulations, or a breach of instructions under Part 3 of the Monash University (Academic Board) Regulations.						
AUTHORISED MATERIALS						
OPEN BOOK		YES	√ NO			
CALCULATORS Only HP 10bII+ or Casio FX8	2 (any suffix) calculator permitted	√ YES	\square NO			
SPECIFICALLY PERMITTE if yes, items permitted are:	D ITEMS	☐ YES	√ NO			
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The exam contains FIVE questions. ALL questions must be answered. The exam is worth 100 marks in total.

QUESTION 1

Show that the following expression is the MLE for the variance assuming a Gaussian distribution.

$$\hat{\sigma}^2 = \frac{1}{n} \sum_{i=1}^n (x_i - \bar{x})^2$$

20 marks

Total: 20 marks

- END OF QUESTION 1-

QUESTION 2

Second question.

(a) Part a.

4 marks

(b) More stuff.

10 marks

(c) Final part.

6 marks

Total: 20 marks

— END OF QUESTION 2 —