

Office Use Only		

2022 Spring 7W1 Examination Period

College of Applied Science & Technology Applied Computing

Applied Computing		
EXAM CODES:	APCV 101	
TITLE OF PAPER:	Final Exam	
EXAM DURATION:	2 hours writing time	
READING TIME:	10 minutes	
THIS PAPER IS FOR STUDE Sierra Vista Yuma Location 5 Location 6	NTS STUDYING AT: (check where applicable) Douglas Tucson Locatin 7 Other (specify)	
This includes books, notes, paper writing on any part of your body.	ve in your possession any item/material that has not been authorised for your exam., electronic device/s, mobile phone, smart watch/device, calculator, pencil case, or Any authorised items are listed below. Items/materials on your desk, chair, in your son will be deemed to be in your possession.	
	to be removed from the room. This includes retaining, copying, memorising or erial for personal use or to share with any other person by any means following your	
Failure to comply with the above action from the Dean of Students	instructions, or attempting to cheat or cheating in an exam will result in disciplinary s.	
AUTHORISED MATERIALS		
OPEN BOOK	☐ YES ✓ NO	
CALCULATORS TI-92 or similar	✓ YES □ NO	
SPECIFICALLY PERMITTED if yes, items permitted are: L		
Candidates must co	mplete this section if required to write answers within this paper	
STUDENT ID:	DESK NUMBER:	

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 —