Student Name/ID   ....

Bachelor of Information and Communication Technologies

Graduate Diploma in Information and Communication Technologies

Final Examination for

Advanced Programming
BCPR301

Semester Two 2018

Date: Tuesday 20 November 2018

Time: 9.00am – 12.10pm

Time Allowed: 3 hours 10 minutes
Students are encouraged to read through the exam
in the first ten (10) minutes and ask any questions.

Instructions:
Note: This final exam script has been released in advance. You can submit an answer by 9am, Monday 12 November. You will be notified whether your work is a "pass" or a "fail", and how accurate your expected marks are by 5pm, Friday 16 November. You may still elect to sit on the same exam during 9.00am – 12.10pm on Tuesday 20 November in exam weeks.

TOTAL MARKS: **20**

A minimum of 50% must be achieved in this final examination.

This examination is worth 50% of the total marks for this course.
This paper has Three (3) pages including the cover sheet.

Instructions:

This is an open-notes exam. Students may bring the two course text books: "The O'Reilly Python Pocket Reference" and "Design Patterns: Elements of Reusable Object-Oriented Software" into this exam and use them as needed.

Students may NOT bring any other materials into the exam.

No electronic materials and software, except MS Word and Notepad, are allowed in this exam.

Each student needs to use MS Word or Notepad to produce a document containing her/ his answer for all questions in this exam.

Each student needs to write the expected marks based on her/ his own self-marking.

At the end of the exam, students **MUST** submit their documents produced to the drop box on the course Moodle site.

Question:

Evaluate and discuss how effectively your solution of Assignment 3 uses design patterns to solve design problems existing in your solution of Assignment 2.

Please use only one of the design patterns applied in your solution of Assignment 3 when you explain a knowledge point. Using two of the design patterns to explain a same knowledge point will not double up the marks for that knowledge point.

(20 marks)