



Gratia Christian College  
宏恩基督教學院

Academic Year 2016-2017  
Semester 2  
Examination

Course Code & Title : PY1202 Research Methods

Time Allowed : 2 hours

Student Name : \_\_\_\_\_

Student ID : \_\_\_\_\_

This paper has 14 pages (including this cover page).

1. This paper contains two sections: 68 questions in Section A and 6 questions in Section B.
2. Answer **ALL** questions in Section A and **FOUR** of the six questions in Section B.
3. Answers for Section A should be marked on the Multiple-choice Answer Sheet. Answers for Section B should be written in the Answer Book. In the Answer Book, start EACH question (not part of a question) on a NEW page.
4. You must return the full examination paper together with the Multiple-choice Answer Sheet for Section A and the Answer Book for Section B. You should not take away any part of the examination paper.

This is a **closed-book** examination.

*No materials or aids are allowed during the whole examination. If any unauthorized materials or aids are found on a candidate during the examination, the candidate will be subject to disciplinary action.*

**DO NOT TURN THIS PAGE UNTIL YOU ARE TOLD TO DO SO.**

**SECTION B.** Select **FOUR** of the following questions and answer in the answer book provided. You should write down the question number that you have selected. The total mark for this section is 32 marks. Each question carries 8 marks.

1. Compared to between-subjects designs, what the advantages and disadvantages of within-subjects designs are.
2. Explain why a pre-post design can't produce an unambiguous cause-and-effect explanation. Discuss how the series of observations before the treatment can help reduce this problem.
3. Explain why the large variance within treatment is a concern for between-subjects design. Use an example to illustrate how a second factor can be used to reduce the variance in a between-subjects experiment.
4. Describe a correlational study and a differential research. Discuss the differences between them.
5. Describe the three types of survey questions and outline the advantages and disadvantages of each.
6. What is Type I and Type II error? Why do they occur? How each of these errors affects the research results?

- END OF EXAMINATION -