## 中原大學102學年度 碩士班 入學考試

# 102／3／2 10：00～11：30 心理學系實殓，認知及叕展心理學组（甲组）誠實是我何珍視的美德， 臨床心理學组（两组） 

$\qquad$ （共 3 頁第 1 頁）
■可使用計算機，惟僅限不具可程式及多重記憶者

## Research Methods（33\％）

1．Please explain independent variables，dependent variables，extraneous variables， mediating variables，and moderator variables（2points each，for a total of 10 points）．
2．A challenge to the repeated measures design is the order effect．Please explain what the order effect is（3 points）．In addition，please describe how to control the order effect（ 10 points）．
3．Please discuss the advantages and disadvantages of having a pretest in your research design（10 points）．

## Statistics（34\％）

Note：$\alpha=0.05$ for all the questions
4．Calculate the correlation between number of the students and their anxiety level．
Construct the regression equation based on number of the students as the predictor and anxiety level as the criterion．Calculate 95 C．I．of anxiety level if number of the students is 9 ．（10 points）．

| number of students | 6 | 8 | 3 | 10 | 8 |
| :--- | :--- | :--- | :--- | ---: | :--- |
| anxiety level | 7 | 8 | 1 | 8 | 6 |

5．Six students are randomly selected from a population．They are tested three times in a day．Based on the data below，is there any significant difference found among scores measured in three testing time？（10 points）．

| student | morning | noon | afternoon |
| :--- | :---: | ---: | ---: |
| A | 1 | 5 | 5 |
| B | 2 | 1 | 5 |
| C | 1 | 3 | 5 |
| D | 0 | 4 | 6 |
| E | 2 | 2 | 3 |
| F | 1 | 2 | 5 |

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102／3／2 10：00～11：30 心理學系嘪嬐，認知及發展心理學组（甲组）誡赛是我何珍視的美德，社會，人格，計畫及工商心理學組（乙組）我們喜愛「拒絶作弊，堅守正直」的你！臨床心理學組（丙組）

科目：心理學方法
（共 3 頁第 2 頁）
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6．Eighteen subjects are randomly assigned to three types of therapy．Construct a ANOVA analysis．（14 points）．

| gender | therapy | Method 1 | Method 2 |
| :---: | :---: | :---: | :---: |
| Method 3 |  |  |  |
| male | 8 |  |  |
|  | 4 | 3 | 6 |
|  | 9 | 4 | 3 |
| female | 3 | 7 | 9 |
|  | 8 | 3 | 8 |
|  | 5 | 4 | 10 |

## Psychological Testing（33\％）

7．Please discuss the basic procedures in test development．（10 points）
8．Explain the key terms（10 points）
Distractor analysis
Criterion－referenced test
9．The reliability of a 30 －item test is .70 and 20 items from the same domain are added to the test．What will the estimated reliability of the 50 －item test be？（ 5 points）

10．A design of three raters rate six applicants as pass versus fail are contained in table below．What is the reliability coefficient？（8 points）

|  | Rater |  |  |
| :---: | :---: | :---: | :---: |
| Applicant | A | B | C |
| 1 | pass | pass | pass |
| 2 | pass | pass | pass |
| 3 | fail | fail | fail |
| 4 | fail | pass | fail |
| 5 | fail | fail | fail |
| 6 | fail | pass | pass |

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$\square$ 不可使用計算機

F table

第 95 百分點


