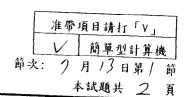
淡江大學九十四學年度轉學生招生考試試題

系別: 統計學系三年級

科目:統



注意:請將所有答案答於答案紙上,以避免影響成績。

一、選擇題 20分(每題 5 分)

- 1. The least squares method in linear regression problems minimizes which of the following?
 - (a) SSR
- (b)SSE
- (c)SST
- (d)All of the above
- 2.若虛無假設 H_0 爲『新發行的藥不會增加血壓急速上升的狀況』則下列何者的選擇較合適?
 - (a) $\alpha = 0.001 \ \text{A} \ \beta = 0.1$
- (b) $\alpha = 0.01 \ \text{\AA} \ \beta = 0.05$
- (c) $\alpha = 0.05 \pm \beta = 0.01$

- (d) $\alpha = 0.1$ 且 $\beta = 0.001$
- (e) $\alpha = 0.05 \ \text{H} \ \beta = 0.05$
- 3. In a left-skewed distribution
 - (a) the median equals the mean.
- (b) the median is less than the mean.
- (c) the median is greater than the mean.
- (d) none of the above.
- 4. The p-value criterion for hypothesis testing is to reject the null hypothesis if:
 - (a) p-value = α
- (b) p-value $< \alpha$
- (c) p-value > α
- (d) $-\alpha < p$ -value $< \alpha$

二、填充題 10分(每題 5分)

- 1. If two events are mutually exclusive, what is the probability that both occur at the same time?
- 2. Which of the following is a continuous quantitative variable? Please write down your answers.
 - A. the color of a student's eyes
 - B. the temperature of the water
 - C. the number of employees of an insurance company
 - D. the amount of milk produced by a cow in one 24-hour period.
 - E. the number of gallons of milk sold at the local grocery store yesterday.

注意:下頁還有試題!