

所別： 學習與教學研究所碩士班科目： 心理與教育研究法

一、假設你想瞭解「優良教師」的人格特質，你會：

1. 運用哪一種研究方法來研究？請說明其理由。(9分)
2. 運用該研究法可能產生的缺點為何？請說明之。(8分)
3. 你要採取哪些措施以避免第二小題所陳述的缺點？請說明之。(8分)
(本題需依序作答)。(共 25 分)

二、請針對下列的量表類型，選擇適當的信度考驗方法，並說明選擇該考驗方法的原因。(共 25 分)

1. 有 30 個題項 (items) 的「李克特氏量表」(Likert Scale)。(8分)
2. 有 150 個題項的「李克特氏量表」。(8分)
3. 有 30 個題項的「二分法的量表」(如調查在求學時期，是否有各種突破困境的經驗)。(9分)

三、Please prove the following claims or give a counter example for each claim. (25 分)

1. When the value of the correlation coefficient is large, the relation between the two variates is close to linear, thus, when $r = 0.9$ or 0.95 the relation is nearly linear. (8分)
2. When the value of the correlation coefficient is zero or near zero the two variates have no or almost no functional relation. (7分)
3. When the value of the correlation coefficient is positive (negative), the value of Y becomes larger (smaller) as a whole, as the value of X becomes larger (smaller). (5分)
4. Given three variates X_1 , X_2 , and X_3 . The partial correlation $r_{12.3}$ is always large than or equal to part correlation $r_{1(2,3)}$. (5分)

四、Please fill in each blank with the right answer. (25 分)

$$H_0: \mu_1 = \mu_2 = \mu_3 = \mu_4$$

$$H_1: (\text{_____}) (2 \text{ 分})$$

$$F_{0.95} = 2.95, n_1 = n_2 = n_3 = n_4 = 8$$

SV	SS	Df	MS	F	P
Between	() (2分)	() (3分)	34	() (3分)	() .05 (3分)
Within	392	() (3分)	() (3分)		
Total	() (3分)	() (3分)			