

※ 考生請注意：本試題不可使用計算機。請於答案卷(卡)作答，於本試題紙上作答者，不予計分。

1. Please explain in detail how to conduct a hospital based case-control study. The answer should address the sources of cases or controls, sampling scheme, measurement, etc. (30 pt)
2. In epidemiology, as in science in general, a sounding hypothesis may be one of the most powerful forces influencing the direction and success of research. How may we formulate a useful hypothesis for an epidemiological study? (30 pt).
3. Please explain the following terms: (5 pt, each)
  - a). Bias
  - b). Prevalence
  - c). Incidence
  - d). Standardized mortality ratio
  - e). Non-differential error
  - f). Population attributable rate
  - g). Secular change
  - h). Open cohort