

臺北醫學大學 102 學年度碩士班暨碩士在職專班入學考試

生物醫學資訊概論試題

本試題第 1 頁；共 1 頁

(如有缺頁或毀損，應立即請監試人員補發)

注意
事項

- 一、本試題共四大題，共計 100 分。
- 二、請將最適當的答案依題號作答於考試答案卷上。
- 三、試題答錯者不倒扣；題次號碼錯誤或不按順序或鉛筆作答，不予計分。

1. Please explain the following terms and standards in medical informatics: (40%)
 - (1) HL7 (health level seven)
 - (2) ICD-9-CM (international classification of diseases, clinical modification)
 - (3) SNOMED (systematized nomenclature of medicine)
 - (4) LOINC (logical observation identifiers, names and codes)
 - (5) MeSH (medical subject headings)
2. Data Mining is one of the popular skills in many fields. Please elaborate what data mining is and its application in Biomedical Informatics. (14%)
3. (1) Please explain what "Evidence-based research" is? (10%)
(2) Describe the limitations of classic evidence-based medicine and clinical practice guidelines. (10%)
(3) Please describe what your solutions are for these limitations? (10%)
4. Please define the following terms: (16%)
 - (1) Gene expression microarray
 - (2) Bioinformatics