112學年度第1學期資訊管理研究所博士班資格考

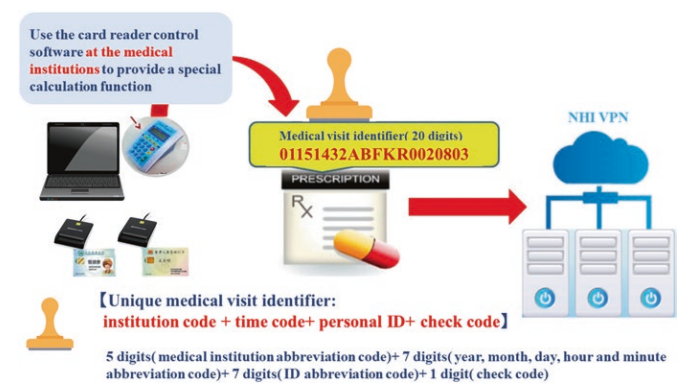
科目:高等健康資訊學

Time：2023/10/27 13:00-16:00

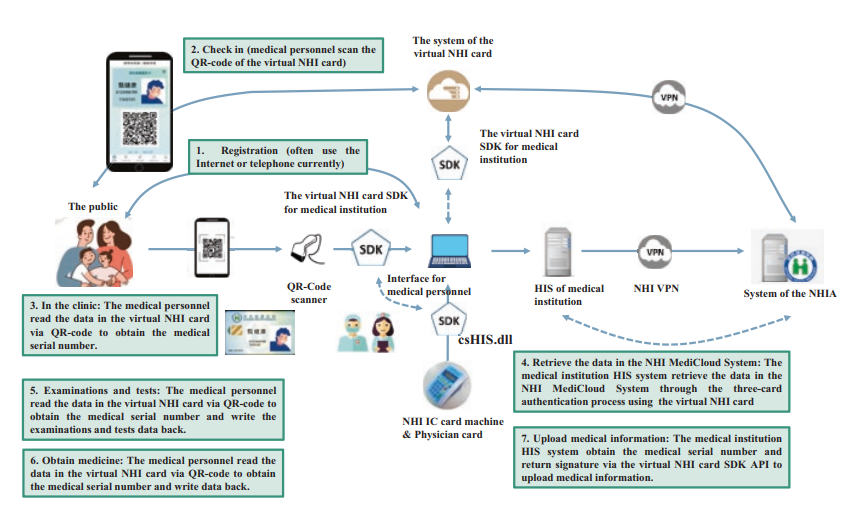
備註：請用原子筆，勿用鉛筆作答。

Format： □ OPEN BOOK ■ CLOSED BOOK

1. **(23%)** Please explain and make comparisons with the advantages and disadvantages of various payment systems for Taiwan National Health Insurance including Fee-for-Service, Case payment, Fee-for-Performance, TW-DRGs, Per-diem payment, and Capitation payment.
2. **(10%)** Please describe the connection process between the Medical Care System and the Long-term Care System 2.0.
3. **(33%)** Please analyze recent trends and the effectiveness of data mining technology research in smart hospitals as published in prominent Medical Informatics journals, including the Journal of the American Medical Informatics Association and the Journal of Medical Internet, over the past five years.
4. **(10%)** The following is a graph to describe the medical visit-identified mechanism used in Taiwan. a. Please first explain its workflow; b. for some exceptional cases, (b.1) the card reader is out of order, (b.2) the network is disconnected since of telecom; (b.3) the patient did not carry the card with him/her. Please list possible the contingency measures for the above three cases.



1. **(10%)** The following graph describes the flow of medical visits using virtual National Health Insurance card. a. Please explain the graph at first, and then b. for the three SDKs in the graph to guess what functions they should provide to complete the whole flowchart.



1. **(13%)** Please compare the advantages and disadvantages of the following payment methods Fee-for-service; b. Fee for performance; c. capitation payment; d. Taiwan diagnosis related groups (Tw-DRGs); e. Per diem payment