109學年度第2學期資訊管理研究所博士班資格考

科目:高等健康資訊學

注意: 請勿使用包括手機在內的任何3C產品

After reading the Journal article attached, please answer the following questions as possible as you can without the assistance of any computerized devices including smartphone:

1. What does the “All of Us” mean? (3%)
2. As the research conclusion pointed out “…compiling data from both surveys and EHR can provide a more comprehensive source for family health history, but informatics challenges and opportunities exist…” Could you explain much more in detail what are those challenges and opportunities? (10%)
3. Please provide substantial recommendation for the research methodology or statistical analysis technique to the research. (10%)
4. Do you believe all the clinical data from EHR in Taiwan is true or not? Please explain why. (10%)
5. (16%) For the following paper “Characterizing outpatient problem list completeness and duplications in the electronic health record”, please read its abstract as follows, and then list the possible solutions, not mentioned in the paper, to accomplish the sound-and-complete outpatient record.
6. (17%) For the following paper “Systems engineering and human factors support of a system of novel EHR-integrated tools to prevent harm in the hospital”, please read its abstract and then list the possible measures you know to increase the patient safety, including medicine, surgery, blood transfusion, etc.
7. 請分析近五年 Journal of the American Medical Informatics Association與Journal of Medical Internet 醫療資訊重要期刊中，人工智慧在醫療資訊領域應用的趨勢。(33%)