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POSTGRADUATE INSTITUTE OF MEDICINE
UNIVERSITY OF COLOMBO

MD (HEALTH INFORMATICS) EXAMINATION – APRIL 2022

Date:- 25th April 2022

Time:- 12.30 p.m. – 3.30 p.m.

ESSAY PAPER

Answer all four (04) questions.

Answer each question in a separate book.

1. The Ministry of Health is heading for an integrated health information architecture.
 - 1.1. Briefly discuss the role of health information standards in designing and implementing an integrated health information architecture including the formulation of a blueprint. (30 marks)
 - 1.2. Explain the term Fast Healthcare Interoperability Resources (FHIR) profile with a suitable example. (30 marks)
 - 1.3. Discuss the importance of a multidisciplinary team approach in FHIR profiling. (40 marks)

2. There is an increased tendency for the General Practitioners (GPs) to use various ICT solutions, ranging from Electronic Health Records (EHR) to tele-consultation platforms.
 - 2.1. Discuss the security and privacy issues that may arise in GP settings in using ICT tools. (40 marks)
 - 2.2. Propose a high-level architecture for an interoperable prescription platform in a GP setting. (60 marks)

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3. Recently, tourism is gaining attention as a measure to restore the Sri Lankan economy.
 - 3.1. Discuss the role of cross-border health records in tourism. (40 marks)
 - 3.2. Explain the role of International Patient Summary (IPS) of Systematized Nomenclature of Medicine (SNOMED) in cross-border health. (30 marks)
 - 3.3. Briefly discuss the role of Health Insurance Portability and Accountability Act (HIPAA) in the cross-border health records. (30 marks)

4. Online learning and blended learning have gained momentum during the pandemic. The use of online technologies in health professional training has been debated in terms of its ability to transfer certain skills.
 - 4.1. Discuss how the Ministry of Health in Sri Lanka has been using online technologies for health professional training. (35 marks)
 - 4.2. Propose a methodology for using online learning as a tool for Continuous Professional Development (CPD) linked with revalidation (re-licensing) of medical doctors. Your answer should address concerns related to access, equity, quality, privacy and confidentiality, and sustainability. (65 marks)