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POSTGRADUATE INSTITUTE OF MEDICINE
UNIVERSITY OF COLOMBO

MSc (BIOMEDICAL INFORMATICS) END OF SEMESTER III
EXAMINATION – APRIL 2019

Date:- 5th April 2019

Time :- 1.30 p.m. – 3.00 p.m.

SEQ PAPER

Answer **all three (03)** questions.
Answer each part in a separate book.

Part A – Module 11 - Management

1.
 - 1.1. Briefly describe Triple Constraints in project management. (20 marks)
 - 1.2. Why it is important to have a Change Control process in Project Management? (40 marks)
 - 1.3. Select one (01) of the following documents and explain with respect to its purpose, what it contains and Enterprise Environment Factors that can influence the creation of the selected document. (40 marks)
 - 1.3.1. Project Statement of Work (SoW)
 - 1.3.2. Business Case
 - 1.3.3. Project Charter

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Part B – Module 13 - Medical Data and Information Management

2. Universal Health Coverage monitoring will be one of the key areas in the national health system. It is accepted that electronic Health Information Systems implementation is an important strategy for the monitoring of UHC. Listed below are few indicators used for UHC monitoring.

Indicator 1 : Skilled birth attendance

Indicator 2 : Tuberculosis treatment coverage

Indicator 3 : Unplanned subsequent admission of a patient to the same or a different hospital within 30 days of discharge from a hospital due to the same illness.

- 2.1. List the denominator, numerator and the possible data sources for the above indicators. (30 marks)
- 2.2. Discuss how an electronic health information system could improve monitoring of the indicators listed above. (70 marks)

Part C - Module 14 - Disease Surveillance and IT for Population Genomics

- 3.
- 3.1. Define Public Health Surveillance. (20 marks)
- 3.2. Sri Lanka has a well-established notifiable disease surveillance system. However, there are limitations with the reporting system.
- 3.2.1. List four (04) limitations of the Notifiable Disease Reporting System in Sri Lanka. (40 marks)
- 3.2.2. Briefly discuss two (02) limitations listed in 3.2.1 (40 marks)