

Master Copy

POSTGRADUATE INSTITUTE OF MEDICINE
UNIVERSITY OF COLOMBO

MSc (BIOMEDICAL INFORMATICS) END OF SEMESTER III
EXAMINATION – FEBRUARY 2018

Date : 09th February 2018

Time: 1.00 p.m. – 2.30 p.m.

SEQ PAPER

Answer all questions.

Answer each part in a separate book.

Part A - Module 11- Management

01.

- 1.1. Briefly explain the four (04) phases in a typical 'Project Life Cycle'.
(20 marks)
- 1.2. List three (03) processes in 'Project Integration Management'. (15 marks)
- 1.3. Briefly explain the role of leadership in administering a hospital.
(25 marks)
- 1.4. Describe the different types of motivation techniques used to motivate the staff in a Hospital.
(40 marks)

Contd...../2-

Part B - Module 13 - Medical Data and Information Management**02.**

- 2.1. Explain how Electronic Health Record (HER) systems benefit by using terminology standards such as SNOMED CT. (40 marks)
- 2.2. List the stages in implementation of SNOMED CT. (10 marks)
- 2.3. Briefly state how you would justify enhancing the quality of information use by introducing SNOMED CT to a clinical institute which is currently using ICD for reporting purposes. (50 marks)

Part C - Module 14 - Disease Surveillance and IT for Population Genomics**03.**

- 3.1. Define disease surveillance. (10 marks)
- 3.2. Briefly discuss the uses of disease surveillance data. (60 marks)
- 3.3. You are the Medical Officer of Health (MOH) in an area where the population is 2500 people. National Programme for Tuberculosis and Chest Disease Control asked you visit all households in your area and check for the presence of a cough lasting more than two weeks among adults (that is, people aged 18 years or older). You visited all households and identified 78 people who had a cough lasting more than two weeks. Of these 78 people, 25 had a confirmed diagnosis of tuberculosis (TB) after laboratory investigation.
 - 3.3.1. Name the type of surveillance you conducted in the above scenario. (10 marks)
 - 3.3.2. Calculate the incidence rate of tuberculosis in adults in your MOH area. (20 marks)