POSTGRADUATE INSTITUTE OF MEDICINE
UNIVERSITY OF COLOMBO

MSC (BIOMEDICAL INFORMATICS)

END OF SEMESTER I REPEAT EXAMINATION - JULY 2017

Date: 20 July 2017   **Time** 1.00 p.m. - 1.30 p.m.

Answer the question of the Module that you were repeated.
Answer the question in a new book.

Module 1
Mathematics for Computing and
Object Oriented Programming

1.

    1.1.   List four (04) primitive data types used in Java.   (20 marks)

    1.2.   Convert the following decimal number to binary.
        38.65   (15 marks)

    1.3.   Convert the following binary number to decimal.
        10111.01101   (15 marks)

    1.4.   Draw a flowchart to input height and weight of a person, calculate the BMI and print whether the person is obese or not. BMI of 30.0 or higher considered as obese.   (50 marks)

Module 4
Networking, Computer Hardware, Operating Systems and
Application Packages

2.

    2.1.   List the seven (07) layers of Open Systems Interconnection (OSI) model.   (15 marks)

    2.2.   Briefly describe the functions of two (02) layers selected from the list in your answer to 2.1.   (20 marks)

    2.3.   List the components of the communication process.   (15 marks)

    2.4.   Briefly describe two (02) components selected from the list in your answer to 2.3.   (20 marks)

    2.5.   Describe the differences between an application software and an operating system.   (30 marks)