

POSTGRADUATE INSTITUTE OF MEDICINE
UNIVERSITY OF COLOMBO

MSc (BIOMEDICAL INFORMATICS)

END OF SEMESTER I EXAMINATION – FEBRUARY 2017

Date: 23 February 2017

Time: 2.00 p.m. - 3.30 p.m.

Answer all (03) questions

Answer each question in a separate book

1. 1.1. List three (3) basic concepts of Object Oriented Programming. (15 marks)
- 1.2. Briefly describe each concept listed above. (45 marks)
- 1.3. Write the pseudo code for a simple application which will calculate and print the Expected Date of Delivery (EDD) after the date of the Last Regular Menstrual Period (LRMP) is entered by the user. (40 marks)

2. 2.1. Describe ‘regression testing’ and ‘stress testing’. (20 marks)
- 2.2. List three (3) main types of software maintenance. (15 marks)
- 2.3. List four (4) important attributes of a professional software solution. (20 marks)
- 2.4. Explain why design conflicts arise when designing the software architecture of a system of which both availability and security are identified as the most important non functional requirements. (45 marks)

3. 3.1 List four (4) common network devices. (20 marks)
- 3.2 Describe the functions of an operating system. (40 marks)
- 3.3 Explain the differences between relative and absolute cell referencing techniques. (40 marks)