IT No:

Sri Lanka Institute of Information Technology

B.Sc. Degree
in
Information Technology

Mid-Term Examination
Year 1, Semester 1 (2015)

Fundamentals of Information Technology (N100)

Duration: 1 Hour

Instructions to Candidates:

- This is a closed book examination.
- This paper contains 3 questions on 6 pages without the cover page.
- Answer all questions in the SPACE PROVIDED.
- Read all questions before answering.
- The total marks obtainable for this examination is 30.
- Calculators are NOT allowed.

IT No:

Question 1 (12 marks)

a) What is a computer? (1marks)

b) What is the purpose of communication hardware? (2marks)

c) Briefly explain the Von Neumann architecture with the aid of a diagram. (5marks)

d) Explain the purpose of input devices and output devices. Give TWO examples for each.
(4marks)

IT No:

Question 2 (10 marks)

a) How can the computers be classified based on **size**? Explain each type briefly. (4marks)

b) Briefly explain the following.

- General purpose computer
- Technical writer
- Translator (3marks)

c) Compare and contrast Off-the-shelf packages and Tailor made packages. (3marks)

IT No:

Question 3 (8 marks)

Convert the following numbers into given number bases

a) Conversion from **Decimal to Binary**

- 237_{10} (2marks)

b) Conversion from **Binary to Decimal**

- 1101011001_2 (2marks)

c) Conversion from **Decimal to Octal**

- 7993_{10} (2marks)

d) Conversion from **Decimal to Hexadecimal**

- 9385_{10} (2marks)

End of the Question Paper