

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?

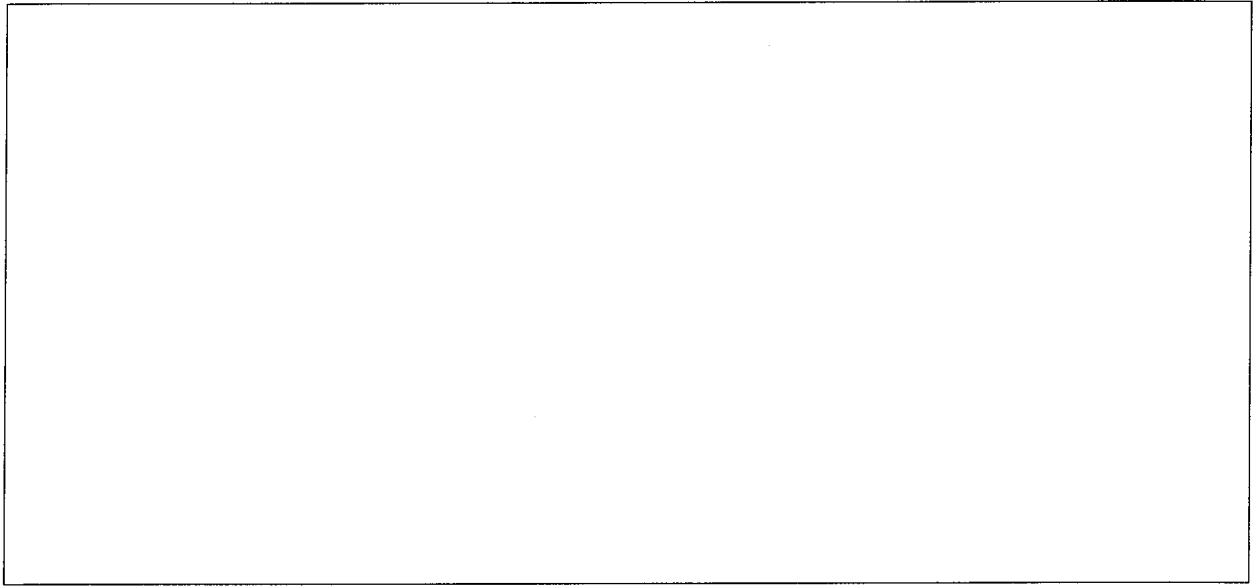
(1marks)

b) What is the purpose of communication hardware?

(2marks)

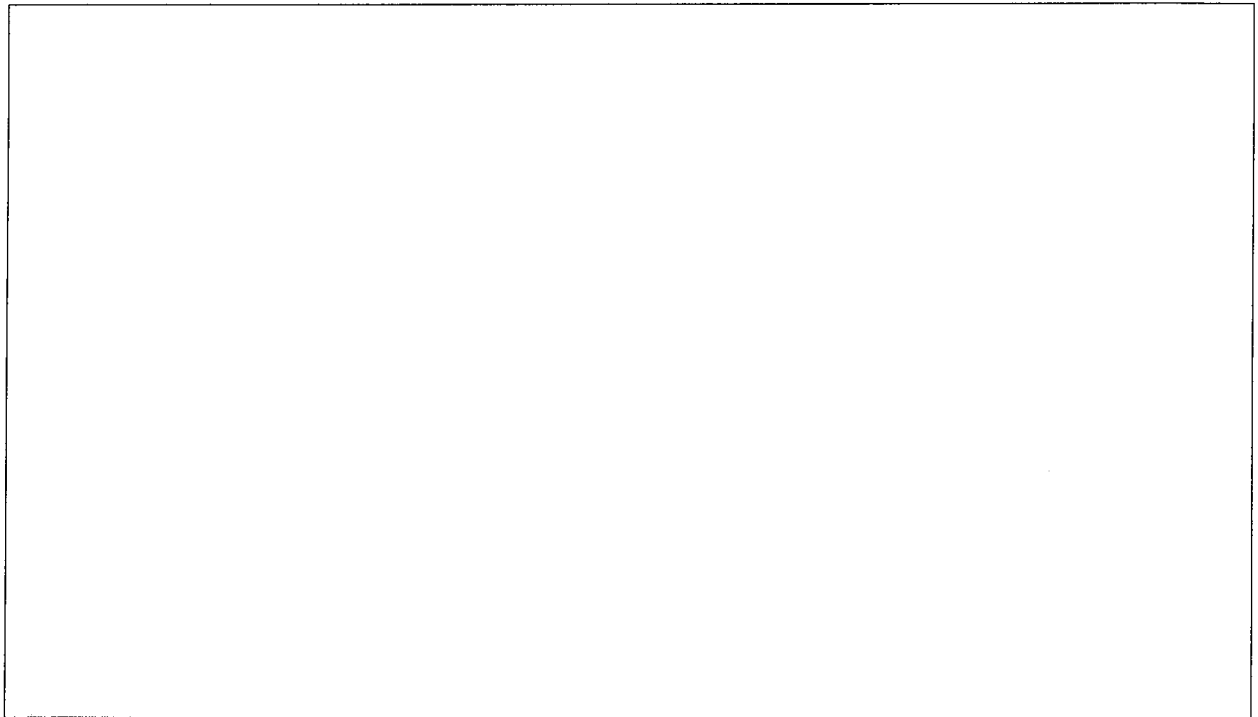
c) Briefly explain the Von Neumann architecture with the aid of a diagram.

(5marks)



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

(4marks)



IT No:

Question 2

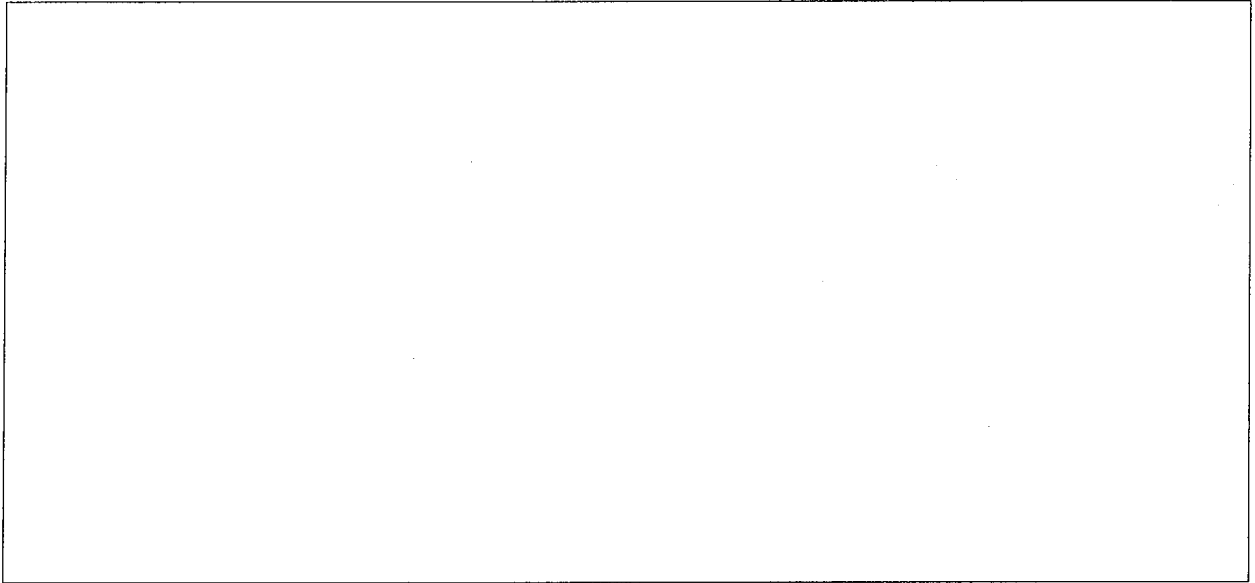
(10 marks)

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

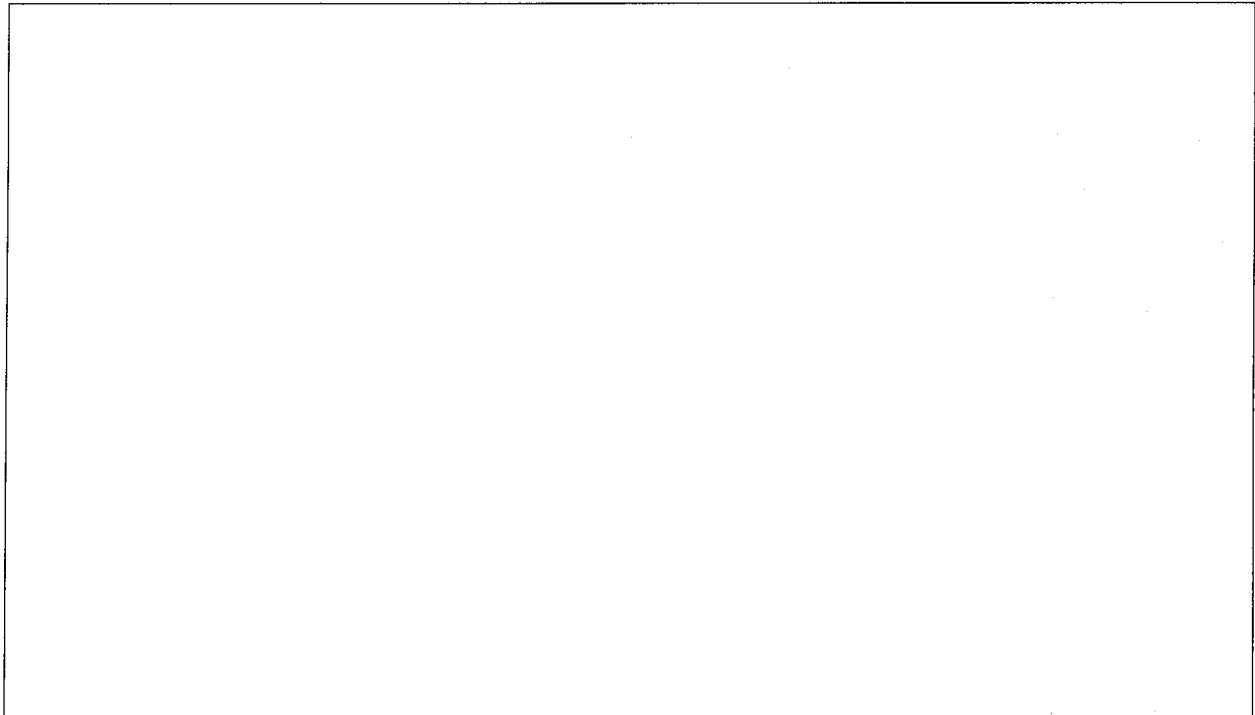
- b) Briefly explain the following.

- 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