

Sri Lanka Institute of Information Technology

B.Sc. Degree
in
Information Technology

Mid-Term Examination
Year 1, Semester 1 (2014)

Fundamentals of Information Technology (N100)

Duration: 1 Hour

Instruction to Candidates:

- ◆ This paper contains 3 questions on 4 pages without the cover page.
- ◆ Answer all questions on the Question Paper itself.
- ◆ Read all questions before start answering.
- ◆ The total marks obtainable for this examination is 30.
- ◆ This is a closed book examination.
- ◆ Calculators are not allowed

Question 1

(12 marks)

a) What is a System?

(2marks)

b) List the main components of a Computer System.

(2marks)

c) List **FOUR** characteristics of a computer.

(2marks)

d) Explain Primary Storage and Secondary Storage. Give **ONE** example of each. (3marks)

- e) What is the main difference between impact and non-impact printers? Give **ONE** example of each (3marks)

Question 2

(8 marks)

- a) What is System Software?

(2marks)

- b) Briefly explain the following.

- Off – the shelf packages
- In-house packages
- Professional packages

(3marks)

c) What is the difference between fields, records and data file

(3marks)

Question 3

(10 marks)

Convert the following numbers into given number bases

a) Conversion from **Decimal to Binary**

- 48_{10}

(2marks)

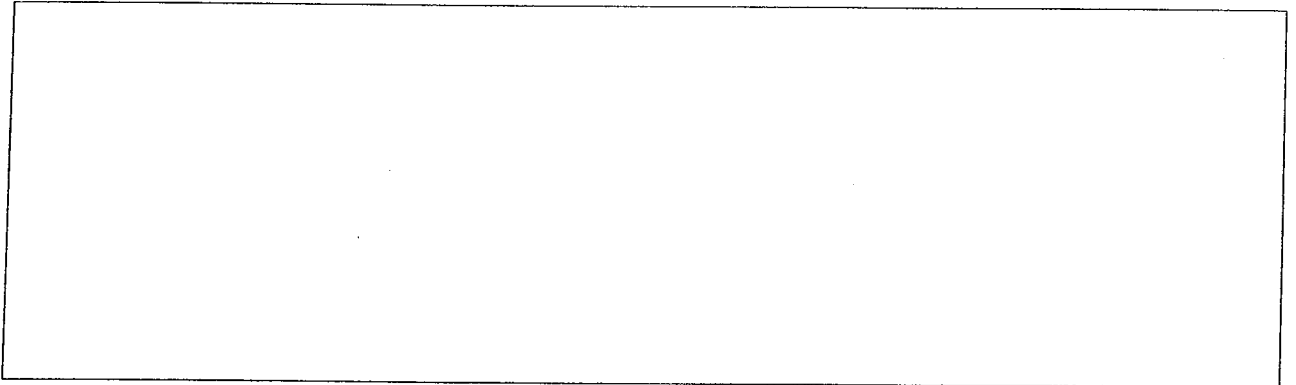
b) Conversion from **Binary to Decimal**

- 11001_2

(2marks)

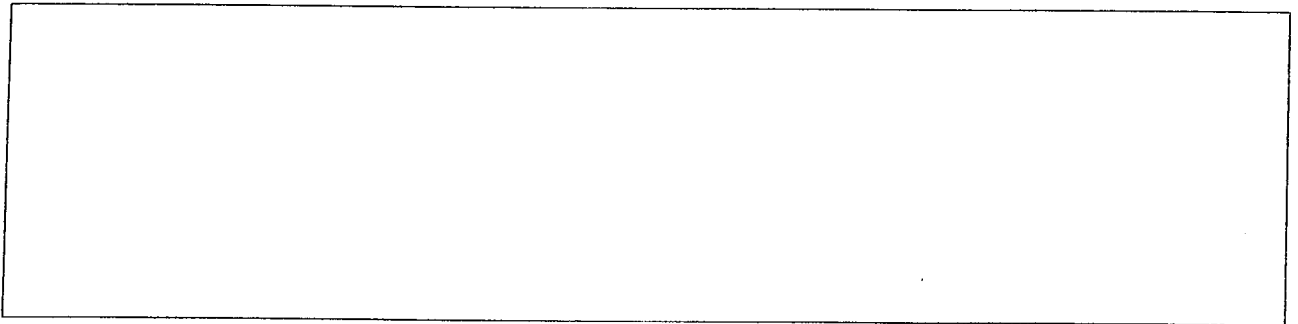
c) What are the **SIX** types of files?

(3marks)



d) What is Centralized Processing? Give **ONE** advantage and one disadvantage.

(3marks)



End of the Question Paper

