



ELIZADE UNIVERSITY, ILARA MOKIN

Faculty of Basic and Applied Sciences

Mathematics and Computer Science Department

First Semester Examination (Stream 2); 2018/2019 Academic Session

Course Code: CSC 101

Course Title: Introduction to Computer Science

Course Leader: Dr. E.F Ayetiran

Duration: 2 hours

HOD's Signature

A handwritten signature in red ink, appearing to be 'Ayetiran'.

**Instruction:**

Candidates should answer 3 Questions in all. Attempt 1 question from each section.

**Section A.**

1.
  - a. Explain the IPO Cycle and mention the various hardware elements involved (10mks)
  - b. Who Proposed the "Stored Program Concept" and when? (4mks)
  - c. State the key concepts of this architecture (6mks)
  
2.
  - a. List 10 Hardware components and their functions (10mks)
  - b. State the full meaning of the following  
UNIVAC, EDSAC, EDVAC, ENIAC (4mks)
  - c. Define the following  
Bit, Byte, Nibble (6mks)

### Section B.

1. a. Which of the categories of programming language is said to be machine dependent, and which is machine independent? **(3mks)**  
b. Explain what you understand by machine dependent and machine independent. **(10mks)**  
c. Explain the steps involved in developing a visual basic program **(7mks)**
  
2. a. Define the following  
Debugging, Variable, Data Type, Keywords, Program **(10mks)**  
b. Write a simple visual basic program to calculate the simple interest **(5mks)**  
c. In a tabular form, state 5 differences between a software and a program **(5mks)**

### Section C.

1. a. Explain the various views of an operating system **(6mks)**  
b. List and explain the basic responsibilities of the kernel **(6mks)**  
c. Define the following:  
Batch OS, Time-Sharing OS, Kernel **(6mks)**  
d. The hybrid kernel approach tries to combine the \_\_\_\_\_ of a monolithic kernel with the \_\_\_\_\_ of a microkernel. **(2mks)**
  
2. a. List and explain the types of operating systems based on the types of computers they control and the sort of application they support. **(12mks)**  
b. In a tabular form, give 4 differences between Monolithic and Microkernel **(8mks)**