



**ELIZADE UNIVERSITY**  
**ILARA-MOKIN**

**FACULTY: BASIC AND APPLIED SCIENCES**  
**DEPARTMENT: MATHEMATICS AND COMPUTER SCIENCE**  
**1<sup>st</sup> SEMESTER EXAMINATION**  
**2016 / 2017 ACADEMIC SESSION**

**COURSE CODE: CSC 209**

**COURSE TITLE: Computer Hardware**

**COURSE LEADER: Dr. Kehinde Agbele**

**DURATION: 2 Hours**

**HOD's SIGNATURE**

A rectangular box containing a handwritten signature in black ink, which appears to be "K. Agbele".

**INSTRUCTION:**

Candidates should answer QUESTION ONE and any **THREE** questions.

Students are warned that possession of any unauthorized materials in an examination is a serious offence

Students are permitted to use **ONLY** a scientific calculator.

1. A small business employs a number of staff members who share an old and outdated computer. Some are required to save confidential files that should not be accessible by others. In this context, prepare a written recommendation to the manager outlining the installation and configuration of a replacement computer. In your response, consider the company's needs for security, data back up, file management and software licensing. [25 Marks]
2. (a) Explain the **FOUR** modes that indicate the power saving function level? [5 MARKS]  
(b) What is Troubleshooting? Hence, outline the series of logical steps involved in troubleshooting a faulty computer system. [8 MARKS]
3. (a) Explain the history of computers. [4 MARKS]  
(b) With the aid of Von Neumann architecture diagram, define the functional components computer system. [5 MARKS]  
(c) Explain Cache Memory and its levels. [4 MARKS]
4. (a) Define the following terms  
i. Chipset  
ii. Virtual Memory  
iii. Input/Output Bus  
iv. Registers  
v. CPU throttling [10 MARKS]  
(b) Explain **three** methods that can be used to improve the performance of a processor. [3 MARKS]
5. (a) With the aid of a diagram, explain how a processor works. [8 MARKS]  
(b) What are the step-by-step involved in removing and installing a processor? [7 MARKS]