



**ELIZADE UNIVERSITY**

**ILARA-MOKIN**

**FACULTY: BASIC AND APPLIED SCIENCES**  
**DEPARTMENT: MATHEMATICS AND COMPUTER**  
**SCIENCE**

**1<sup>st</sup> SEMESTER EXAMINATION**  
**2018 / 2019 ACADEMIC SESSION**

**COURSE CODE: CSC 203**

**COURSE TITLE: Operating Systems**

**COURSE LEADER: Dr. Bukola Onyekwelu**

**DURATION: 2 Hours**

**HOD's SIGNATURE**

**INSTRUCTION:**

Candidates should answer any **FOUR** Questions.

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

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

- 1a. What is the major difference between the Disc Operating System (DOS) and the Windows Operation System?
- b. \_\_\_\_\_ was designed from its origin as a single-user, single-tasking operating system.
- c. Operating systems can be classified/categorized based on different conditions and perspectives. List two perspectives, and the types under each perspective.

2a. Explain the Components of the Operating System

- b. In a Batch-Processing Operating System, what is the Turnaround time?
- c. What level of Interaction does a user have with his/her job in a Batch-Processing Operating System?

3a. Define the following

- (i.) A Process (iii.) A Process Control Block
- (ii.) A Process State (iv.) Process Scheduling

b. Draw the Process Control Block.

4a. Briefly describe a Scheduler?

b. With the aid of a table, show the comparison of the three types of schedulers

c. Given the table

Process	Arrival Time	Execution Time	Service Time
P0	0	6	
P1	1	5	
P2	2	4	
P3	3	3	

Calculate, for each of the underlisted algorithms:

- First-Come, First-Served (FCFS) Scheduling
- Shortest -Job-Next Scheduling

- i. Service time
- ii. Average Wait time

5a. Briefly explain the following: