

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

RESIT/SPECIAL EXAMINATION

**EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF
SCIENCE IN INFORMATION SCIENCE**

BSIS 352: OPERATING SYSTEM THEORY

STREAMS: BSIS

TIME: 2 HOURS

DAY/DATE: MONDAY 28/08/2023

2.30 P.M – 4.30 P.M.

INSTRUCTIONS

1. This examination paper has **FIVE** (5) questions.
2. Candidates are required to attempt **QUESTION 1** and **ANY OTHER TWO** questions.
3. No reference materials **OF ANY KIND** should be carried into the Examination room.
4. **DO NOT** write on the question paper.

Question One (30 marks)

- (a) Explain **FIVE** functions of a memory manager (10 marks)
- (b) Describe **FIVE** characteristics of a modern operating system (10 marks)
- (c) Explain **FIVE** merits of a distributed operating system (10 marks)

Question Two (20 marks)

- 2.a) Input devices provide data and control signals to a computer. Explain this statement in the light of an academic library (10 marks)
- (b) Explain **FIVE** demerits of using an operating system in library operations (10 marks)

Question Three (20 marks)

- 3 (a) Describe **FIVE** stages during processing of operating systems (10 marks)
- (b) Explain **FIVE** reasons of suspending a process during operation by an operating system (10 marks)

Question Four (20 marks)

- 4.(a) Describe explanatory and descriptive goals of an operating system((10 marks)

(b) A key concern about operating system is the ability to evolve. Explain using clear examples in a library set up (10 marks)

Question Five (20 marks)

5. (a) Explain **FIVE** attributes of operating systems (10 marks)

(b) Explain the role of operating system in disk management (10 marks)
