

GRETSA UNIVERSITY - THIKA

UNIVERSITY EXAMINATIONS JANUARY - APRIL 2021 SEMESTER

CERTIFICATE IN INFORMATION TECHNOLOGY

COURSE CODE: CFIT 016

COURSE TITLE: BASIC CONCEPTS OF OPERATING SYSTEMS

DATE: 10 MAY 2021

TIME: 8.00 AM - 10.00 AM

INSTRUCTIONS TO CANDIDATES

- 1. SECTION A IS **COMPULSORY.**
- 2. SECTION B: ANSWER ANY OTHER **THREE** QUESTIONS.
- 3. **<u>DO NOT</u>** WRITE ANYTHING ON THIS QUESTION PAPER AS IT WILL BE AN EXAM IRREGULARITY.
- 4. ALL ROUGH WORK SHOULD BE AT THE BACK OF YOUR ANSWER BOOKLET AND CROSSED OUT.

CAUTION: All exam rooms are under CCTV surveillance during the examination period.

SECTION A: COMPULSORY
QUESTION ONE

	QUESTION ONE		
a)	Outline the three features of the operating system.	[6 Marks]	
b)	List four examples of Operating Systems.	[4 Marks]	
c)	Discuss functions of Operating Systems.	[6 Marks]	
d)	Discuss the history of Operating Systems, from the first generation to the fourth generation.		
		[8 Marks]	
e)	Explain these Operating System services to the users.		
	a. Program Execution.	[2 Marks]	
	b. Manipulation of File System.	[2 Marks]	
	c. Resource Allocation.	[2 Marks]	
	d. Information and Resource Protection.	[2 Marks]	
f)	Explain three Advantage of using Operating System	[6 Marks]	
g)	Define an operating system.	[2 Marks]	
	SECTION B: ANSWER ANY THREE QUESTIONS		
	QUESTION TWO		
a)	Define and describe the term Kernel in Operating System.	[4 Marks]	
b)	Give and explain the functions of a Kernel.	[10 Marks]	
c)	State and Explain types of kernel.	[6 Marks]	
``	QUESTION THREE		
	What is a firmware?	[2 Marks]	
	Explain where firmware is used in daily life example.	[10 Marks]	
c)	Explain four examples of firmware.	[8 Marks]	
	QUESTION FOUR		
a)	Give and explain the difference between operating system and firmware.	[10 Marks]	
	Discuss difference between 32Bit and 64Bit Operating System.	[10 Marks]	
U)	Discuss difference between 52Dit and 04Dit Operating System.		
	QUESTION FIVE		
a)	Define term process scheduling.	[2 Marks]	
b)	Give two state process model.	[2 Marks]	
c)	Explain three types of schedulers.	[6 Marks]	
d)	Describe process scheduling queues.	[10 Marks]	
u)	Deserve process senetaring queues.		