



KIBABII UNIVERSITY

[KIBU]

UNIVERSITY EXAMINATIONS **2022/2023 ACADEMIC YEAR**

END OF SEMESTER EXAMINATIONS YEAR THREE SEMESTER TWO EXAMINATIONS

FOR THE DEGREE IN **COMPUTER SCIENCE**

COURSE CODE

CSC 314

COURSE TITLE

MOBILE COMPUTING

DATE: 13/12/2022

TIME: 9:00 A.M - 11:00 A.M.

INSTRUCTIONS TO CANDIDATES

ANSWER QUESTIONS ONE AND ANY OTHER TWO.

QUESTION ONE (COMPULSORY) [30 MARKS]

 b. State and explain c. Differentiate between computing d. State and explain e. Describe any two states are chile unit 	any three wireless security standards applied in WLANS ween 3G and 4G technologies of data transmission as used in four advantages and four disadvantages of satellite transmission techniques that may be used to determine the current network.	sion. [8Marks]
	QUESTION TWO [20 MARKS]	
	we Support services given by software packages to support muting. Illowing as used in android application development:	obile and [10marks] [8Marks]
i. ii. iii.	Activities Content providers Intent and Intent Receiver service	[2Marks]
iv. c. Write a samp	ble text code in java that would display a save button	[ZIVIAIKS]

QUESTION THREE [20 MARKS]

[10 Marks] a. Define wireless application protocol and state its features. b. A satellite's job in the communications network is to serve as a repeater. Explain [2Marks] c. Differentiate between GPS and GEOs satellites as used in mobile communications [6Marks] [2Marks] d. Define Wireless computing QUESTION FOUR [20 MARKS] [8Marks] a. Differentiate between: 802.11g and 802.11i standards 802.1x and WPA [10Marks] ii. b. State and explain any five roles/functions of middleware [2Marks] c. State any four application areas of WLANS QUESTION FIVE [20 MARKS] a. Trunked mobile radio systems overcome many of the disadvantages associated with the [10 Marks] operation of individual repeaters such as Community Repeaters. Discuss [4Marks] b. List and describe any two Mobile IP components [2Marks] c. State any two types of satellites that operate at the MEO orbit. [4Marks] d. Describe the two types of WLANS.