THE CATHOLIC UNIVERSITY OF EASTERN AFRICA

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GABA CAMPUS - ELDORET

A. M. E. C. E. A

MAIN EXAMINATION

SEPTEMBER – DECEMBER 2021 TRIMESTER

FACULTY OF SCIENCE

BACHELOR OF SCIENCE

DEPARTMENT OF COMPUTER AND INFORMATION SCIENCE

CMT 314: INTRODUCTION TO MOBILE COMPUTING

Date:December 2021Duration: 2 HoursInstructions:Answer Question ONE and any other TWOQuestions

QUESTION ONE

i) Define the following	(5 Marks)		
a) Android			
b) Jdk			
c) Sdk			
d) Adt			
e) Avd			
ii) Define android Services?	(2 Marks)		
iii) List five Features of Android	(5 Marks)		
iv) List and explain four main components that can be used within an Android			
application	(8 Marks)		
v) List steps of Creating an Android Application	(4 Marks)		
vi) Define android Content Providers	(2 Marks)		
vii) List four directories and files in the Android project	(4 Marks)		
QUESTION TWO			
i) What is android activity?	(2 Marks)		
ii) List Android Developer Tools	(2 Marks)		

- iii) List and explain four android callbacks methods (8 Marks)
- iv) A service has lifecycle callback methods that you can implement to monitor changes in the service's state and you can perform work at the appropriate stage. Draw a diagram to show the lifecycle when the service is created with startService() (8 Marks)

QUESTION THREE

i)	List steps on how to Run android application	(4 Marks)	
ii)	Define android Broadcast Recievers	(2 Marks)	
iii)	List two important steps to make Broadcast Receiver broadcasted intents	work for the system (4 Marks)	
iv)	What is Application Components?	(2 Marks)	
v)	What are the methods which you need to override in 0 have your Content Provider working	Content Provider class to (8 Marks)	
IESTION FOUR			

QUESTION FOUR

i)	What are android Fragments?	(2 Marks)

- ii) Explain six important points about fragment (12 Marks)
- iii) Draw two UI modules defined by fragments can be combined into one activity for a tablet design, but separated for a handset design

(6 Marks)

QUESTION FIVE

i) Draw four main layers of android architecture diagram.

(10 Marks)

ii) List and explain five section of android Architecture

(10 Marks)

END