

TECHNICAL UNIVERISTY OF MOMBASA KWALE CAMPUS

Faculty of Engineering & Technology

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

DIPLOMA INFORMATION COMMUNICATION TECHNOLOGY (DICT 13S)

ECS 2205: MOBILE PROGRAMMING

END OF SEMESTER EXAMINATION SERIES: APRIL 2015
TIME: 2 HOURS

Instructions to Candidates:

You should have the following for this examination

- Answer Booklet

This paper consists of **FIVE** questions.

Attempt question ONE (Compulsory) and any other TWO questions

Question One (Compulsory)

a)	List down the component found in each layer of J2ME architecture. (i) Profile layer (ii) Virtual machine (iii) Configuration layer (iv) Host Operating system	(8 marks)
b)	Describe the functions of the following methods as used in mobile programming (i) Start APP() (ii) Pause App() (iii) Destroy App()	(6 marks)
c)	Write down the syntax of MIDlet skeleton	(6 marks)
Qu	nestion Two	
a)	Define the term "Obfuscation"	(2 marks)
b)	List and explain THREE main reasons to obfuscate a J2ME code	(6 marks)
c)	Using a suitable diagram, describe the FOUR states of a standard MIDlet	(12 marks)
Qu	estion Three	
Stu	dy the following code segment and answer the questions below:	
	1. Import javax.microedition LcduL.*	
	public class program extends MIDlet;	
	{	
	Private Display, display	
	StringItem;	
	2. Public program ()	
	stringitem = new stringitem (null, "hello"); Form form = new Form ("Welcome"); forM.append (stringitem);	
	3. Public void startApp () { }	
	4. Public void pauseApp () {	
	5. Public void destroyApp ()	

} Notify Destroyed;
}

(i) Describe the function of each line in code segment marked 1(ii) Describe the function of each line in code segment marked 2	(4 marks) (4 marks)			
(iii) What does the method 3 do in the above code	(4			
marks)				
(iv) What does the method 4 do in the above code	(4 marks)			
(v) State the output of the above code	(4 marks)			

Question Four

a)	List and describe any TWO screen class methods	(4 marks)
b)	List and describe any TWO ticker class methods	(4 marks)
c)	List and describe any TWO textbox class methods	(4 marks)
d)	List and describe any TWO alert class methods	(4 marks)
e)	List and describe any TWO list class methods	(4 marks)

Question Five

The javax.microedition.rms package defines FOUR interface, one class and FIVE exceptional classes. List and describe each interface, class and exceptional classes (20 marks)