

## TECHNICAL UNIVERISTY OF MOMBASA

# Faculty of Engineering & Technology

#### DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

DIPLOMA INFORMATION COMMUNICATION TECHNOLOGY (DICT 14S/-EV)

### ECS 2105: COMPUTER SUPPORT & MAINTENANCE

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.

#### **Question One (Compulsory)**

Question one (comparison)			
a)	Explain operating system concepts and provide examples for each.	(8 marks)	
b) c)	What do you understand by the term compatibility mode A network operating system has a number of characteristics, explain them	(2 marks) (6 marks)	
d)	A desktop operating system has the following characteristics, explain them	(4 marks)	
Question Two			
a)	What is software customization of software	(2 marks)	
b)	Briefly explain the THREE levels of software customization	(8 marks)	
c)	efly in step point show the procedure of windows 7 installing operating systems (OS) <b>(5 marks)</b>		
d)	Discuss FIVE factors to consider before operating system installation. Identify hand oprocedures	• • •	
Question Three			
a)	The operating system manages the interaction between applications and the hardware		
b)	Discuss THREE interaction modes between the user and computer operating system	(4 marks) (4 marks)	
c)	<ul> <li>Differentiate the following system software and state their functions <ul> <li>(i) A device driver and registry files</li> <li>(ii) Operating systems and application programs</li> <li>(iii) Multi-tasking and multi-processing</li> <li>(iv) Multi-threading and processor scheduling</li> </ul> </li> <li>All modern CPUs can run in different modes of operation. Explain the following rule</li> <li>(i) Real mode</li> <li>(ii) Protected mode</li> </ul>	(8 marks) unning mode. (8 marks)	
	(iii) Virtual Real mode (iv)Compatibility mode		
Question Four			
a)	There are three distinct types of operating systems, desktop operating system, network operating systems and mobile operating system. Explain the key characteristics of each operating system (10 marks)		
b)	Determine the suitability of an operating system based on customer needs. Explain Fl consider before installation.		
c)	Briefly discuss any FIVE functions of operating system	(5 marks)	
Question Five			
a)	Discuss different booting mode in windows, pressing the F8 key during the boot process.		
		(10 marks)	

b) Explain the following terms relating to computer installation (10 marks) (10 marks)

(i) POST
(ii) BOOTING
(iii) COLD BOOTING
(iv) FORMATING & PARTIONING
(v) NFTS and FAT 32