

## TECHNICAL UNIVERSITY OF MOMBASA

# Institute of Computing & Informatics UNIVERSITY EXAMINATION FOR: BBOM- BACHELOR OF BUSINESS ORGANISATION & OFFICE MANAGEMENT EIT 4160 COMPUTER APPLICATIONS AND PRESENTATIONS I END OF SEMESTER EXAMINATION SERIES: SEPT. , 2017 Series TIME: 2 HOURS

## **Question One**

a) A 5-year-old laptop with a recently formatted hard drive needs to have an operating system installed.

i) Define an operating system	[2marks]		
ii) Discuss five function of an operating system.	[10marks]		
iii) Describe TWO factors about the laptop's hardware that would influence the choice of an			
operating system.	[4marks]		
iv) A decision has been made to undertake a FULL installation of the operating system software.			
What are the consequences of this decision for the laptop and its users? In your answer consider			
other more suitable installation options.	[4marks]		
b) List and explain any three windows operating systems tools.	[6marks]		
c) Discuss any four factors one should consider when purchasing a computer	[4marks]		

## **Question Two**

a) A confidential file needs to be deleted from a workstation. Explain the most e	effective way to
achieve this.	[2marks]
b) Discus the importance of the following types of computers memories	6marks]

i. Cache

#### ii. ROM

iii) Virtual memory

c) List any two reason why a computer may slow down in performance and efficiency [4Marks]
d) State any FOUR common operations performed during software installation. [4marks]
e) Explain the following software installation concepts [4marks]

- i. plug-in
- ii. Device driver

#### **Question Three**

a) Kilifi county council is in the process of outsourcing for a database system to manage its community development projects. As a community development officer provide insights on the following issues.

i) Two softwares that can be used to develop such a system	[2marks]	
ii) Explain the purpose of data validation in a database	[3 marks]	
b) Explain four reasons why an organisation should move away from manual type writing and		
adopt an electronic word processor	[4marks]	
c) Justify any three criteria to be considered when purchasing software.	[3marks]	
d) List and explain any four attributes of good information in an organisation	[8marks]	

#### **Question Four**

a) Bit rate and bandwidth tell us about the speed of data communication. What is the relationship between bit rate and bandwidth?
b) Explain the applications of the following information technology concepts [10marks]
i. Optical Character Recognition
ii. Optical Mark Reader
iii. Magnetic Ink Character Reader
iv. Bar Code System
v. Voice Data Entry

c) Discuss any two advantages of tailor made software's over standard application software's in an organisation.[2marks]

d) Explain the most appropriate device an organisation can adopt for data backup [2marks]

e) Discuss the importance of a a	firewall in a computer system	[2marks]
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## **Question Five**

a) Discuss the classification of computers according to generations and highlight t	he technology	
that was used in each generation.	[8marks]	
b) Illustrate the functional components of the CPU clear showing the flow of program		
instructions, flow of control and flow of data signals	[6 marks]	
c) Using a relevant example, illustrate the benefits of accessing the world-wide web (www) to		
the student community in a university?	[4 marks]	
d) Differentiate between system software and application software.	[2marks]	