



THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE

(A Constituent College of Jkuat)

Faculty of Engineering and Technology

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

CERTIFICATE IN INFORMATION TECHNOLOGY (CIT 10A)

EIT 1106: INFORMATION SYSTEMS II

END OF SEMESTER EXAMINATIONS

SERIES: AUGUST/SEPTEMBER 2011

TIME: 2 HOURS

Instructions to Candidates:

Answers **MUST** be written clearly within the answer booklets provided with the exam paper Answer question **ONE** (**COMPULSORY**) and any other **TWO** questions from the list of questions below

This paper consists of **THREE** printed pages

SECTION A (30 MARKS) – Answer all Questions in this section

Question 1 (Compulsory)

a)	Define	e the following terms	(5 marks)	
	(i)	Systems		
	(ii)	Information system		
	(iii)	System development		
	(iv)	Software		
	(v)	Hardware		
b)	· · ·		(5 marks)	
	(i)	Information security		
	(ii)	Information privacy		
	(iii)	Information accuracy		
	(iv)	Accessibility		
	(v)	Timeliness		
c)	List aı	List any FIVE advantages of implementing information systems to any organization		
	_		(5 marks)	
d)	What core factors should any organization or person consider when purchasing/buyin			
	softwa	are and hardware?	(5 marks)	
e)	Explain in detail how information systems can be implemented in the following areas and the			
		tages to be achieved	(5 marks)	
	(i)	National security		
	(ii)	Healthcare management		
	(iii)	Financial management		
	(iv)	Agriculture		
	(v)	Education		
f)	Define	e what is meant by term ethics and how its applied in any organization	(2 marks)	
g)	List th	e types of information systems and their levels of operation	(3 marks)	
<u>SE</u>	CTIO	<u>N B</u>		
Qı	ıestion	2		
a)	Define	e the term information systems	(2 marks)	
b)	Explain in detail the following types of information systems			
	(i)	Transaction Processing System (TPS)	(2 marks)	
	(ii)	Office Automation Systems (OAS)	(2 marks)	
	(iii)	Decision Support Systems (DSS)	(2 marks)	
	(iv)	Knowledge Based Systems (KWS)	(2 marks)	
	(v)	Management Information Systems (MIS)	(2 marks)	
c)	Differentiate between the following types of computers			
	(i)	Mainframe vs Supercomputers	(2 marks)	
	(ii)	Client-Server vs Minicomputers	(2 marks)	
	(iii)	Laptops vs Handheld Computers	(2 marks)	

Question 3 a) Briefly explain the importance of the following Information Systems Components Hardware (2 marks) (i) (ii) Software (2 marks) Information (2 marks) (iii) (iv) People (2 marks) Telecommunication (2 marks) (v) b) Define what is meant by computer related crimes and how this can be prevented from taking place in any organization (4 marks) c) List at least **FOUR** telecommunication devices likely to be found within an office setting (4 marks) d) What is identity theft? (2 marks) **Question 4** a) Explain how one can protect their information systems from the following threats and by what means (i) **Spamming** (ii) Computer hacking Malware i.e. Viruses, worms, Trojans, logical time bombs etc (iii) Identify theft (iv) Vandalism of equipment (10 marks) (v) b) In detail, explain the functions of the following Information Systems listed below. **Decision Support Systems** (i) (ii) **Executive Information Systems Transaction Support Systems** (iii) **Management Information Systems** (iv) Office Automation Systems (v) (10 marks) **Question 5** a) Differentiate between the following terms (4 marks) **Information Processing** (i) (ii) **Data Processing** (3 marks) b) Name any THREE output devices c) Define what the terms ethics is and how organizations can apply them when it comes to information systems policies (5 marks) d) Explain how a Transaction Processing Systems (TPS) will assist the following people in performing their duties effectively and efficiently Store Casheir (i) Bank Teller (ii) Store Manager (iii) Supervisor (8 marks) (iv)

d) Briefly explain the functions of a computer Anti-Virus and its importance

(2 marks)