

TECHNICAL UNIVERISTY OF MOMBASA

Faculty of Engineering &

Technology

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

DIPLOMA IN INFORMATION COMMUNICATION TECHNOLOGY (DICM 12M)

EIT 2208: COMPUTER SECURITY (FUNDAMENTALS)

END OF SEMESTER EXAMINATION SERIES: DECEMBER 2013 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** and any other **TWO** questions Maximum marks for each part of a question are as shown

Question One (Compulsory)

a)	Define the term encryption	(2 marks)
b)	 Explain the following types of computer attacks: (i) Brute force attack (ii) Distributed Denial of Service (DDOS) (iii) Hacking (iv) Spamming (v) Cracking 	(10 marks)
c)	How does physical and logical security affect computer security?	(3 marks)
d)	 With suitable examples, demonstrate how the following measures can be used to enhaling (i) Anti virus software (ii) Regular software updating (iii) Access control (iv) Changing passwords regularly (v) Scanning your computer 	nce security: (10 marks)
e)	State any TWO disadvantages of installing computer networks.	(2 marks)
Question Two		
a)	 Discuss the following models of network computing: (i) Centralized computing (ii) Distributed computing (iii) Collaborative computing 	(9 marks)
b)	Give THREE situations where wireless networks are especially preferred.	(6 marks)
c)	Outline FIVE best practices to ensure cable termination is successful.	(5 marks)
Question Three		
a)	Explain any FOUR characteristics of transmission media.	(12 marks)
b)	Kigeugeu wants to start up a cyber café' Assuming you have been consulted as the on four hardware devices that he may have to acquire.	expert, advise (8 marks)
Question Four		
a)	Explain any THREE types of networks giving their major characteristics.	(12 marks)
b)	Outline the procedure for enabling sharing of files on a network on a computer runn seven.	ing Windows (8 marks)
Question Five		

With the aid of diagrams, briefly describe each of the five physical topologies in which networks are based. (20 marks)