



THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE

(A Constituent College of JKUAT) (A Centre of Excellence)

Faculty of Engineering &

Technology

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

> DIPLOMA IN INFORMATION TECHNOLOGY (DIT 10M)

ECS 2301: NETWORK MANAGEMENT

END OF SEMESTER EXAMINATION SERIES: AUGUST 2012 TIME: 2 HOURS

Instructions to Candidates:

You should have the following for this examination

- Answer Booklet

Question One (30 marks)

 a) Define the following terms: (i) Network management (ii) Data communication (iii) Network architecture 	(6 marks)
 b) Name any FOUR data communication hardware. c) Classify networks according to the geographical distances they cover. d) Outline THREE drawbacks of the divide and conquer method. e) Name the TWO types of network architecture at a logical level. f) Outline TWO duties of the help desk. 	(4 marks) (3 marks) (3 marks) (3 marks) (3 marks)

SECTION B (Answer Any Two Questions)

Question Two (20 marks)

a)	Draw a diagram showing troubleshooting while identifying the chronological problem.	scope of the (10 marks)
b)	Identify the FIVE key elements in network management.	(5 marks)
c)	Outline TWO benefits and two limitation of the contention method of media access.	(5 marks)
Qu	estion Three (20 marks)	
a)	Explain FIVE functions of a network manager.	(10 marks)
b)	Briefly explain the following elements of network management.i) Security managementii) Accounting management	(10 marks)
Question Four (20 marks)		
a)	List SEVEN questions that help the network manager to identify a problem pertaining connectivity of the network.	g to physical (10 marks)
b)	Discuss the following media access methods.i) Pollingii) Token passing	(10 marks)
Question Five (20 marks)		
a)	List EIGHT steps undertaken when trouble shooting a network.	(8 marks)
b)	Outline FIVE security threats to a network.	(5 marks)
c)	State FOUR trouble shooting tools.	(4 marks)
d)	What does the acronym SOAP stand for?	(3 marks)
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