



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)**

<ul> <li>a) Define the following terms:</li> <li>(i) Network management</li> <li>(ii) Data communication</li> <li>(iii) Network architecture</li> </ul>	(6 marks)
<ul> <li>b) Name any FOUR data communication hardware.</li> <li>c) Classify networks according to the geographical distances they cover.</li> <li>d) Outline THREE drawbacks of the divide and conquer method.</li> <li>e) Name the TWO types of network architecture at a logical level.</li> <li>f) Outline TWO duties of the help desk.</li> </ul>	(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 <b>(10 marks)</b>
b)	Identify the <b>FIVE</b> key elements in network management.	(5 marks)
c)	Outline <b>TWO</b> benefits and two limitation of the contention method of media access.	(5 marks)
Qu	estion Three (20 marks)	
a)	Explain <b>FIVE</b> functions of a network manager.	(10 marks)
b)	<ul><li>Briefly explain the following elements of network management.</li><li>i) Security management</li><li>ii) Accounting management</li></ul>	(10 marks)
Question Four (20 marks)		
a)	List <b>SEVEN</b> questions that help the network manager to identify a problem pertaining connectivity of the network.	g to physical (10 marks)
b)	<ul><li>Discuss the following media access methods.</li><li>i) Polling</li><li>ii) Token passing</li></ul>	(10 marks)
Question Five (20 marks)		
a)	List <b>EIGHT</b> steps undertaken when trouble shooting a network.	(8 marks)
b)	Outline <b>FIVE</b> security threats to a network.	(5 marks)
c)	State <b>FOUR</b> trouble shooting tools.	(4 marks)
d)	What does the acronym SOAP stand for?	(3 marks)
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