KABARAK



UNIVERSITY

UNIVERSITY EXAMINATIONS

2008/2009 ACADEMIC YEAR

FOR THE DEGREE OF BACHELOR OF EDUCATION

SCIENCE

COURSE CODE: COMP 312

COURSE TITLE: COMPUTER NETWORKS

- STREAM: SESSION VI
- DAY: THURSDAY
- TIME: 9.00 11.00 A.M.
- DATE: 13/08/2009

INSTRUCTIONS:

- 1. This question paper has FIVE questions
- 2. Answer question ONE and any other TWO questions

PLEASE TURN OVER

QUESTION ONE (30 MARKS) COMPULSORY

(a)	Explain the	meaning	of following term	IS
(4)	Emplani inc	meaning	or romo wing com	

	i.	Thin Client			
	ii.	BNC			
	iii.	Cipher	(0, 1,)		
	iv.	Token	(8mks)		
(b)	Distinguish between				
	i.	CSMA/CD and CSMA/CA			
	ii.	Data and Signal	(4mks)		
(c)	Differentiate	between thick coaxial cable and thin coaxial cable	(5mks)		
(d)		conditions that a gateway must meet in order to perform the functions onetwork systems?	of (3mks)		
(e)	maximum nu	ument is sent over Ethernet network. How many possible minimum and umber of frames can be obtained from this document when broken down the Ethernet network?			
(f)	Determine th	e number of networks an host per network for a class 'C' type network			
(g)	State the encoding sch	oding rules and limitations for Non Return to Zero (NRZ) and Manches	(3mks) ster (5mks)		
QU	ESTION TW	O (20 MARKS) ELECTIVE			
(a)	Compare and	contrast Switches and Routers	(5mks)		

(b)	Every token ring frame contains control information and follows the same structure.	
	Describe a token ring frame.	(10mks)

(c) With the aid of a diagram, explain how CSMA/CD works (5mks)

QUESTION THREE (20 MARKS) ELECTIVE

(a) Compare and contrast Differential Manchester and Non Return to Zero Inverted (NRZ-I) encoding schemes wave formats as a means of converting data to signals to be transmitted over a channel
(5mks)

(b) Determine the input value for the following NRZ-I encoding scheme

