FEDERAL UNIVERSITY OF TECHNOLOGY, MINNA

SCHOOL OF INFORMATION AND COMMUNICATION TECHNOLOGY

DEPARTMENT OF INFORMATION AND MEDIA TECHNOLOGY

SECOND SEMESTER 2016/2017 EXAMINATION

COURSE CODE:	CIT322
COURSE TITLE:	PRACTICAL COMPUTER NETWORKS
CREDIT UNITS:	3
TIME ALLOWED:	2 hours
COURSE LECTURER(S):	MUHAMMAD ENAGI BIMA
NUMBER OF QUESTIONS:	20 OBJECTIVES/FILL IN THE GAP, 5 THEORIES
NUMBER OF PAGES:	3 (INCLUDING THIS PAGE)

INSTRUCTIONS

- Answer all questions
- Do **not** use red pen
- Please use a clear handwriting
- Please use non-programmable calculators only
- You will need to get all options in a question correct to get a mark for that question.

SECTION: 3

1) Explain the concept of CSMA/CD used in ethernet technology. (5 Marks)
2) List four (4) types of Broadcast addresses you know.   (5 Marks)
3) List and explain 3 classes of routing protocols you know.   (5 Marks)
4) List and explain three types WAN connection you know.   (5 Marks)
5) You are the network administrator in CIT 322 Corporations. You are required to use a block of IP addresses given to you by your ISP to implement the network. The IP address is 10.0.0.0/22. You are required to create subnets for the three branch offices from the block you have been provided with. Find
   a. The network addresses for the various subnets
   b. Their broadcast addresses?
   c. Number of hosts on each subnet
   d. The valid range of IP addresses for each subnet   (20 Marks)

BEST OF LUCK