

University of Buea  
Department of Computer Engineering

Course Title: Computer Networks and Protocols

Course Code: CEF 307

First Semester 2011/2012

Lecturer: Obenofunde

First Semester 2011/2012 Exams

Instructions: Answer question 1 and 3 others. Marks (points) are allocated as shown against questions.

1. Compare the OSI and Internet architectures. Include a layer-by-layer comparison  
10 marks
2. a) There are numerous ways to specify, classify or characterize a signal. Characterize signals according to
  - i) their waveforms
  - ii) Units of speed measurement
- b) Differentiate between baseband and broadband transmission
- c) How can network performance be measured? 20 marks
3. a) The data link layer is made of two sub layers. MAC is one of them. What does it do and which protocols are involved here, 10 marks
- b) What is an Ethernet and/or IEEE 802.3 10 marks
4. Classify devices that are used to connect LANs together. 20 marks
5. a) What is ATM and how is it operated. 10 marks
- b) What is logical addressing? How is it implemented in both IPv4 and IPv6 10 marks

Good luck!