NATIONAL OPEN UNIVERSITY OF NIGERIA
14-16 AHMADU BELLO WAY, VICTORIA ISLAND LAGOS
SCHOOL OF SCIENCE AND TECHNOLOGY
MARCH/APRIL 2015 EXAMINATION

Course code: CIT461
Course Title: Internet Architecture and Communications
Time: 3 Hours

Instruction: Answer any Four (4) questions.

1a. Write short note on any security measures for E-Business Systems. [4.5 marks]
1b. Explain Internet Protocol. [5 marks]
1c. Explain classes C and D of IP Addresses. [8 marks]

2a. Explain Internet Control Message Protocol (ICMP). [4 marks]
2b. State and discuss two primaryresponsibilities of IP [6 marks]
2c. State five (5) useful messagesgenerated by Internet Control Message Protocol (ICMP). [7.5 marks]

3a. State the two types of simple internet connection. [2.5 marks]
3b. Write short note on the two fields of IP Addresses [6 marks]
3c. Write short note on the following: [9 marks]
Bridges
Brouters
Gateway

4a. Explain class E of IP Address. [4 marks]
4b. Write short note on IP address. [4.5 marks]
4c. List and explain the two popular approaches to packet switching.[9 marks]

5a. State two advantages of Message switching and one disadvantage of Cell switching of Packet Switched Systems [4.5 marks]
5b. List and explain the two types of Ethernet Hubs. [6 marks]
5c. Describe classes A and B of IP Addresses.[7 marks]
6a. State three main equipmentrequired for internet access. [2.5 marks]
6b. ExplainMulticasting. [6 marks]
6c. Write short note on the four levels of ISPs. [9 marks]