



**NATIONAL OPEN UNIVERSITY OF NIGERIA
14-16 AHMADU BELLO WAY, VICTORIA ISLAND, LAGOS
SCHOOL OF SCIENCE & TECHNOLOGY
JANUARY/FEBRUARY 2013 EXAMINATION**

CIT 461 - INTERNET ARCHITECTURE & COMMUNICATIONS

Instruction: Answer Any Five Questions

Time Allowed: 3 Hours

- 1a. Explain what is meant by the Internet Protocol (IP)**
4 marks
- b. State two primary responsibilities of IP.** **4**
marks
- c. Outline three main functions of IP.** **6**
marks
- 2a. Define packet switching and write short notes on any two packet switching based network technologies.**
6 marks
- b. What does circuit switching involve?**
2 marks
- c. Discuss three advantages of the circuit switched network over the packet switched network.** **6 marks**
- 3a. List any four requirements for Internet connectivity.**
4 marks
- b. State the primary function of ISP.** **2**
marks
- c. Discuss the four different levels of ISPs.** **8**
marks
- 4. Describe virtual private networks and write short notes on any two tunneling protocols**
14 marks
- 5a. Define web design.** **4**
marks
- b. Outline four basic aspects of the web design.** **8**
marks
- c. State the two types of web pages.** **2**
marks

- 6a. Discuss the principles of operation of the Web search engines.
5 marks**
- b. Describe the three different types of web hosting services.
9 marks**
- 7. Propose, with seven points, a general architectural framework for the
next generation of the Internet,
14 marks**