NATIONAL OPEN UNIVERSITY OF NIGERIA
University Village, 91 Cadastral Zone, Nnamdi Azikwe Expressway, Jabi, Abuja
FACULTY OF SCIENCE
DEPARTMENT OF COMPUTER SCIENCE

CIT461: Internet Architecture and Communications   **Credit Units: 2**

Instruction: *Answer Question (1) (25marks) and any other three questions each carrying 15*
marks   **Time:** *2 hours*

1a)   What do you understand by the term "Internet"   **(3 marks)**
b)   Compare TCP and UDP?   **(6 marks)**
c)   List and briefly describe the important terminologies in HTTP   **(6 marks)**
d)   Distinguish between a Switch and a Hub   *(10 marks)*

2a)   Compare domain and workgroup   **(***6 marks***)**
b) With the aid of illustrative diagram, explain the levels of ISPs that you considered important for
efficient Internet Service Provisioning.   *(9 marks)*

3a)   Write short notes on the following:
  (i)   Circuit switching systems   *(4 marks)*
  (ii)   Packet switching systems   *(8 marks)*
b)   What is HTML?   *(3 marks)*

4a)   Describe three (3) Packet Switching Networks known to you
        (9 marks)
b) Internet connectivity in most organizations and networks today, is no longer an additional option,
        but a necessity. Discuss stating also the reasons why company employees use the internet. *(6*
        marks)

5a)   What are Web Services?   *(2 marks)*
b)   State the typical issues that need to be clarified before Internet connections can be
        implemented, maintained, and managed in an organization.   *(5 marks)*
c).   State and briefly explain each Internet Connectivity Requirements you would consider
        necessary while trying to set up an organization's Internet.   *(8 marks)*

6a)   Explain the major Security Concerns within E-Business.   *(10 marks)*
b)   List and describe user interface elements that can be found on any major
        web browsers. *(5 marks)*