



NATIONAL OPEN UNIVERSITY OF NIGERIA
University Village, 91 Cadastral Zone, NnamdiAzikwe Expressway, Jabi, Abuja
FACULTY OF SCIENCES
APRIL, 2019 EXAMINATIONS

COURSE CODE: CIT461

COURSE TITLE: Internet Architecture and Communications

CREDIT: 3 Units

TIME ALLOWED: 2½ Hours

INSTRUCTION: Answer Question 1 and any other FOUR (4) Questions

- 1a) Define Internet? *(1 mark)*
b) How is the internet related/ linked with ARPAnet? *(3 marks)*
c) Describe the Internet protocol layer and list its functions. *(6 marks)*
d) Enumerate the various elements of interface used by a web browser *(5 marks)*
e) List, with an example, five types of software packages that are needed for web designs. *(5 marks)*
f) What is navigation button *(2 marks)*
- 2a) Discuss in details the components of an E-mail. *(9 marks)*
b)) Briefly describe the client-server architecture using http setup. *(3 marks)*
- 3a) What is ISDN? *(3 marks)*
b) What are the characteristics of:
i) ISDN Basic Rate Interface (BRI)? *(3 marks)*
ii) ISDN Primary Rate Interface (PRI)? *(2 marks)*
c) Enumerate the features of web browsers. *(4 marks)*
- 4a) In order to implement an effective Internet connection strategy, there are a few factors that need to be considered and a few Internet connectivity requirements that need to be determined. Explain any FIVE of such requirements. *(10 marks)*
b) What is tunnelling? *(2 marks)*
- 5a) List the two basic types of Web page designs with their characteristics. *(5 marks)*
b) Outline and describe, in correct order, how a Web Search Engine works *(7 marks)*
- 6a) State and briefly explain the goals common to all network connectivity projects regardless of network size *(6 marks)*
b) State advantages and disadvantages of Microsoft Internet Connection Sharing (ICS) *(3 marks)*
c) State two advantages and four disadvantages of ISDN *(3 marks)*