



NATIONAL OPEN UNIVERSITY OF NIGERIA
14/16 AHMADU BELLO WAY, VICTORIA ISLAND, LAGOS
SCHOOL OF SCIENCE AND TECHNOLOGY
MARCH/APRIL 2014 EXAMINATION

COURSE CODE: CIT 854

COURSE TITLE: NETWORK PROGRAMMING AND DESIGN

TIME ALLOWED: 3 HOURS

INSTRUCTION: ANSWER ANY THREE (3) QUESTIONS

1. (a) In a tabular form outline the different classes of Network and their respective IP
(b) List any four common naming abbreviations and their meaning for domain connection (6 marks)
(c) State any two benefits of subnets (2marks)
2. (a) State any five advantage offered by networking of computers over a single system (5 marks)
(b) State two disadvantages of networking (3 marks)
(c) List the various types of computer networks (6marks)
3. (a) Enumerate the guidelines for switch port allocation (6 marks)
(b) Define the term "Twisted Pair Cable" (2 marks)
4. (a) Draw a flowchart of generic carrier sense protocol (8marks)
(b) Explain the concept of signal collision (6 marks)
(c) List any two commonly used media for digital signals (2 marks)
5. (a) With the aid of an illustrative diagram show how Socket address structure passed from process to kernel. (5 marks)
(b) With the aid of an illustrative diagram show how Socket address structure passed from kernel to process (5marks)
(c) State any four considerations for planning a cabling system (4 marks)
6. We set disposition of a signal by calling the sigaction function, describe the three choices for the disposition (14 marks)

7(a) Discuss the 64-bit Architectures (9marks)

(b) Enumerate five functions of Network Operating System (5marks)