



NATIONAL OPEN UNIVERSITY OF NIGERIA
PLOT, 91, CADASTRAL ZONE, NNAMDI AZIKWE EXPRESSWAY, JABI, ABUJA
FACULTY OF SCIENCES
DEPARTMENT OF COMPUTER SCIENCE
OCTOBER, 2019 EXAMINATIONS

COURSE CODE: CIT465

COURSE TITLE: NETWORK ADMINISTRATION

CREDIT: 2 UNITS

TIME ALLOWED: 2 HOURS

INSTRUCTION: ANSWER QUESTION 1 AND ANY OTHER THREE (3) QUESTIONS

- 1a) Enumerate the class of people that the Network resources are shielded from in a network security system? *(5 marks)*
 - b) What do you understand by the term resource map of a site? *(2 marks)*
 - c) Relate five characteristics of IPV4 *(5 marks)*
 - d) List the resources network security system tries to protect. *(2 marks)*
 - e) Name the two technologies that allow contention/competition to take place in a network *(1 mark)*
 - f) Briefly explain the Principle of Contention/Competition. *(3 marks)*
 - g) List the effects of compromising a network system. *(2 marks)*
 - h) Identify what to look for when performing a local network analysis at the network level. *(5 marks)*
- 2) Write short notes on the following networking technologies:
- a) Token Ring/FDDI approach *(5 marks)*
 - b) Frame Relay *(5 marks)*
 - c) Asynchronous Transfer Mode(ATM) technology *(5 marks)*
- 3a) What layers of the ISO-OSI Reference Model are covered under end to end layer connectivity? *(3 marks)*
- b) Briefly explain the function of each layer listed in (3a) above. *(12 marks)*
- 4) Using relevant diagram(s) where necessary, write short notes on the following network topologies:
- a) Direct connection or one to one topology *(5 marks)*
 - b) Star topology *(5 marks)*
 - c) Bus topology *(5 marks)*
- 5a) Write short notes on the access methods used in Local Area Networks (LANs). *(6 marks)*
- b) Briefly discuss the CSMA/CD protocols. *(4 marks)*
- c) Briefly explain any five of the names a computer (host) connected to a network can assume. *(5 marks)*