

**NATIONAL OPEN UNIVERSITY OF NIGERIA**

**University Village, 91 Cadastral Zone, Nnamdi Azikwe Expressway, Jabi, Abuja**

**FACULTY OF SCIENCE**

**APRIL, 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) What is the first principle of server security ***(2½ marks)***

b) Enumerate the class of people targeted in protecting the Network resources from in a Network security system? ***(5 marks)***

c) Outline the various ways by which standards can be assured. ***(3 marks)***

d) List the resources being protected by a network security system? ***(2 marks)***

e) State five types of issues a system administrator covers. ***(2½ marks)***

f) In order to measure the performance of a running system, the status of some resources are checked. State the resources. ***(5 marks)***

g) Highlight five (5) challenges of system administration? ***(5 marks)***

2a) What do you understand by *resource map* of a site? ***(2 marks)***

b) What are the three methods of shutting down a UNIX computer system ***(4½ marks)***

c) State what to look for when performing a local network analysis at:

i) the network level***(3½ marks)***

ii) the host levels***(5 marks)***

3a) Explain the meta principles of system administration ***(7½ marks)***

b) Describe the main components in a human–computer system and give three examples of network hardware ***(4½ marks)***

c) What are the issues at the network physical connection level that are determined by the physical layer. ***(3 marks)***

4a) Discuss change management.  ***(5 marks)***

b) In a tabular form, Compare IPV4 and IPV6. ***(10 marks)***

5a) In a tabular form, compare packet switching and circuit switching? ***(9 marks)***

b) Explain the term “IP Address” and state its format. ***(6 marks)***