



NATIONAL OPEN UNIVERSITY OF NIGERIA
PLOT 91, CADASTRAL ZONE, NNAMDI AZIKIWE EXPRESSWAY, JABI-ABUJA
FACULTY OF COMPUTING
DEPARTMENT OF COMPUTER SCIENCE
2025_2 EXAMINATIONS.

COURSE CODE: CIT410

COURSE TITLE: CYBER SECURITY

CREDIT: 2 Units

TIME ALLOWED: 2½ Hours

INSTRUCTION: Answer Question 1 and any other TWO (2) questions

1.
 - a. Discuss Cybersecurity. (5 marks)
 - b. Enumerate the benefits of cybersecurity. (7 marks)
 - c. Write out the cybersecurity domains. (2 marks)
 - d. Differentiate between insider attacks and external attacks. (5 marks)
 - e. Differentiate between structured and unstructured attack. (2½ marks)
 - f. Enumerate the various types of cybercrimes. (3 ½ marks)
 - g. Write on the categories of cybercrime you know. (3 marks)
 - h. Write out the various categories of cyber criminals. (2 marks)
2.
 - a. With the aid of an appropriate diagram, explain Firewall. (5 marks)
 - b. Explain three (3) characteristics of fire wall. (3 marks)
 - c. Enumerate four (4) limitations of firewall. (8 marks)
 - d. Briefly write out the various types of firewall available. (4 marks)
3.
 - a. Explain virtual private network. (10 marks)
 - b. Enumerate the advantages and disadvantages of VPNs. (4 marks)
 - c. Explain the types of Virtual Private Network. (6 marks)
4.
 - a. With the aid of a diagram, explain the two (2) ways of setting up a VPN. (10 marks)
 - b. What is access control and why is it important? (3 marks)
 - c. Explain the types of Access Controls. (3 marks)
 - d. Enumerate Eight (8) Access Controls Models. (4 marks)
5.
 - a. Explain the following:
 - i. Access Control List,
 - ii. Access Control Group, and
 - iii. Access Control Roles. (9 marks).
 - b. Explain the following: Authentication, Authorization, and accounting. (6 marks)
 - c. Who is a System Administrator? (5 marks)