



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)**