



NATIONAL OPEN UNIVERSITY OF NIGERIA
Plot 91, Cadastral Zone, Nnamdi Azikiwe Expressway, Jabi, Abuja
Faculty of Science
2023_2 EXAMINATIONS

POSTGRADUATE: PDG
COURSE TITLE: ADVANCED CYBER SECURITY
COURSE CODE: CIT855
CREDIT UNIT(S): 2
TIME ALLOWED: 2 Hours
INSTRUCTION: Answer question ONE and any other two questions

QUESTION ONE

- A. Define point of sale theft and enumerate any three (3) cyber security goal? (5 marks)
- B. How does Man-in-the-Middle (MITM) attack works? (6 marks)
- C. Explain any four (4) top security threat in the world (8 marks)
- D. Explain what you understand by Information Technology Act (ITA-2000) and not more than four (4) points, enumerate some of the objectives of the Information Technology Act, 2000? (11 marks)

QUESTION TWO

- A. List out any two (2) tools attached to each of the CIA triad (6 marks)
- B. List any four (4) reasons for backing up of data on a daily basis? (6 marks)
- C. In a tabular form; not more than four (4) points explain the relationship between IoT and (8 marks)

QUESTION THREE

- A. What is a non-physical threat in cyber security and how can fraud be prevented? (4 marks)
- B. Discuss briefly Internet of Things and block chain (IoT) as recent cybersecurity challenges? (6 marks)
- C. List and explain four (4) types of block chaining (10 marks)

QUESTION FOUR

- A. Discuss the various cyber security detection and prevention mechanisms. (4 marks)
- B. Differentiate between vulnerability assessment and penetration testing and list any four (4) importance of penetration testing in an enterprise. (8 marks)
- C. Define cyber security threats in e-commerce; list and explain briefly the six (6) dimensions of E-commerce security (8 marks)

QUESTION FIVE

- A. State any four (4) benefits of cyber security? (4 marks)
- B. State and explain any five (5) of the security principles (10 marks)
- C. What is the function of (WPA) - WIFI Protected Access (WPA) and Wired Equivalent Privacy (WEP) (6 marks)