



National Open University of Nigeria
Plot 91, Cadastral Zone, Nnamdi Azikiwe Expressway, Jabi - Abuja
Faculty of Sciences
Department of Computer Science
2022_2 Examinations

COURSE CODE: CIT855

COURSE TITLE: Advanced Cyber-Security

CREDIT: 2 Units

TIME ALLOWED: 2 Hours

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

- 1a. Risk analysis or assessment is composed of: Risk identification, Risk analysis and Risk evaluation (5 marks)
- 1b. Distributed Denial of Service (DDoS) (5 marks)
- 1c. Describe Dridex Malware (5 marks)
- 1d. Data archives may have many various forms. Name them (3 marks)
- 1e. Describe any four (4) approaches to detecting suspicious activities using Intrusion Detection System? (8 marks)
- 1f. Differentiate between vulnerability assessment and penetration testing (4 marks)

- 2a. As a Cyber-Security expert, describe any six (6) cyber-security policies you will recommend for your institution (12 marks)
- 2b. Using any four (4) appropriate examples, write on system-based attacks (8 marks)

- 3a. Justify the rationale for establishment of security policies in organizations (8 marks)
- 3b. Explain the steps involved in the Risk Analysis Process? (12 marks)

- 4a). As a Cyber-Security expert, what preventive cyber-security measures should an organization put in place to prevent cyber-attacks? (12 marks)
- 4b. Describe any five techniques that can be employed by criminals to defraud ATM card owners (8 marks)

- 5a. Discuss any three characterization of packet filtering firewalls? (6 marks)
- 5b. Describe any four common architectural implementations of firewalls (12 marks)
- 5c. What is a network intrusion detection system? (2 marks)