



National Open University of Nigeria
Plot 91, Cadastral Zone, Nnamdi Azikiwe Expressway, Jabi - Abuja
Faculty of Sciences
Department of Computer Science
2023_1 POP EXAMINATION

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. Explain the term Physical Security **(3 marks)**
- 1bi. Explain the principle of Least Privilege in cyber-security **(4 marks)**
- 1bii. Explain the principle of Work Factor **(4 marks)**
- 1biii. What is the main crux of ISO 27032 standard **(4 marks)**
- 1biv. What is Hacktivism **(6 marks)**
- 1c. Describe how Screened Subnet Firewalls works **(6 marks)**
- 1d. Data archives may have many various forms. Name them **(3 marks)**

- 2a. Explain any eight gains of implementing and maintaining cybersecurity **(8 marks)**
- 2b. What are Application gateways **(6 marks)**
- 2c. Discuss any three characterization of packet filtering firewalls **(6 marks)**

- 3a. In a sequential order, explain the basic steps that must be complied with in a risk analysis process **(12 marks)**
- 3b. Discuss any four (4) major threats related to e-cash system **(8 marks)**

- 4a. List and explain any six (6) types of malwares created by hackers **(12 marks)**
- 4b. List and explain any four (4) steps to followed in creating a digital signature **(8 marks)**

- 5a. What do you understand by man-in-the-middle attack **(2 marks)**
- 5b. Explain any five (5) system-based attacks **(10 marks)**
- 5c. Justify the rationale for establishment of security policies in organizations **(8marks)**