

BOWEN UNIVERSITY IWO, OSUN STATE
COLLEGE OF COMPUTING AND COMMUNICATION STUDIES
CYBER SECURITY PROGRAMME

B. Sc. DEGREE, FIRST SEMESTER EXAMINATION, 2023/2024 SESSION
COURSE CODE: CYB 401 || COURSE TITLE: DATABASE & CONTROL SYSTEM
COURSE CREDITS: 2 Units || DATE: FRIDAY 26TH JANUARY, 2024 TIME
ALLOWED: 2hours

Instruction: Answer question one and any other two questions

Question 1

- a. i. Define Database
- ii. Write syntax for INSERT, DELETE, UPDATE, and SELECT statements.
- b. i. List three Database Management Software
- ii. Create the following tables with appropriate data types and constraints. Insert given records

30 marks

Question 2

- a. State four ISO standards that can be implemented and what each of them is used for
- b. i. Describe five roles provided by an Enterprise using an automated system
- ii. Explain two Potential threats faced by Enterprises using an automated system

20 marks

Question 3

- a. i. Define Hardening in the Operating System.
- ii. Discuss how hardening is performed on the UNIX Operating System
- b. i. State three important things to know in securing a system
- ii. State four principles to be applied in protecting an operating system

20 marks

Question 4

- a. Most Enterprise using automated systems failed to implement standard security architecture due to the cost of setting up thereby affecting normal operation.
 - i. Itemize five effects of poor security architecture in an Enterprise.
 - ii. State five solutions to the poor security architecture
- b. i. Define Security Architecture
- ii. List six security principles generally accepted as a good security solution and explain one of them

20 marks

Question 5

- a. i. Describe Entity Integrity, Referential Integrity.
- ii. Discuss three internal database mechanism
- b. i. Briefly describe SQL Injection
- ii. Itemize four types of SQL Injection and discuss one of them

20 marks