

BOWEN UNIVERSITY IWO, OSUN STATE
COLLEGE OF COMPUTING AND COMMUNICATION STUDIES
CYBERSECURITY PROGRAM
B. SC. DEGREE FIRST SEMESTER EXAMINATION SESSION: 2022/2023
COURSE TITLE: ENTERPRISE AND PERIMETER SECURITY
COURSE CODE: (CYB 206) TIME ALLOWED: 2 HOURS COURSE CREDIT: 2 UNITS

Instruction: Answer any Three (3) Questions

Question One

- a. What is Cybersecurity? (5 marks)
- b. What is an Enterprise? (3 marks)
- c. In a simple sentence what do you understand by a Perimeter. (2 marks)
- d. Discuss each of the following in respect to zero trust (15 marks)
 - i. Segmentation
 - ii. Access Control
 - iii. Visibility

Question Two

- a. What do you understand by Zero Trust Architecture? (1 mark)
- b. Highlight and briefly explain the pillars that represent a key focus area for categorizing and implementing a Zero Trust environment. (24 marks)

Question Three

- (a) In short, Zero Trust says "Don't trust anyone until they've been verified." What does this statement imply? (5 marks)
- (b) State three (3) forms through which Zero Trust Access operates (6 marks)
- (c) List and explain seven (7) layers of Cybersecurity (14 marks)

Question Four

- (a) State four (4) reason why cybersecurity is so important in what's become a predominant digital world. (10 marks)
- (b) In respect to cybersecurity fundamentals, explain the following and list the measures to guarantee each of them.
 - (i.) Integrity
 - (ii.) Availability
 - (iii) Confidentiality(15 marks)

Question Five

- (a) "Never trust, always verify." Explain the concept behind this statement in terms of security. (3marks)
- (b) List the two (2) categories of attacks that exists. (2 marks)
- (c.) Write short note of each of the following types of web based attack.
 - i. injection attacks
 - ii. DNS Spoofing
 - iii. Session Hijacking
 - iv. Phishing
 - v. Brute
 - vi. Denial of Service
 - vii. Dictionary attacks
 - viii. URL interpretation attacks
 - ix File inclusion attacks
 - x. Man in the middle attacks(20 marks)