



ELIZADE UNIVERSITY, ILARA MOKIN
FACULTY OF BASIC AND APPLIED SCIENCE
DEPARTMENT OF MATHEMATICS AND COMPUTER SCIENCE

FIRST SEMESTER EXAMINATION 2020/2021 SESSION

HOD's SIGNATURE

COURSE TITLE: FUNDAMENTALS OF CYBERSECURITY I

COURSE CODE: CYB 201

INSTRUCTIONS: Answer Any Four Questions

Time Allowed: 2 Hours

1. (a) What is cybersecurity?
(b) Explain briefly why the internet is a safe place that harbors cybercriminals
(c) State and explain the five main components that make up cybersecurity
2. (a) Differentiate between cybersecurity and information security
(b) Write briefly on the following
 - (i) Cyber Attack
 - (ii) A Threat
 - (iii) An Exploit
(c) With the aid of a diagram, explain the classification of threats
3. (a) There are various steps involved in an attacking scenario, list and briefly explain the steps
(b) (i) What is security testing?
(ii) Explain what is the purpose penetration testing
(c) How do malicious payloads harm their victims?
4. (a) What is a security vulnerability?
(b) (i) Differentiate between attack vectors and attack surface
(ii) What are 5 common examples of attack vector?
(c) State and explain the two types or categories of attack vectors
5. (a) Explain the following attacks in detail
 - (i) advanced persistent threat (APT) attack
 - (ii) Cross-site Scripting (XSS) attack
 - (iii) SQL injection attack
(b) (i) What is social engineering?
(ii) Explain how phishing attack can be prevented
6. (a) The CIA Triad is considered the core underpinning of information security. Explain the objectives of information security with respect to the CIA Triad.
(b) What are the standard measures to establish
 - (i) Confidentiality
 - (ii) Integrity
 - (iii) Availabiltiy
(c) State and explain any 3 types of access control.