

# SOUTHWESTERN UNIVERSITY NIGERIA

KM 20, SAGAMU-BENIN EXPRESSWAY, OKUN OWA, IJEBU-ODE, OGUN STATE.

FACULTY OF PURE & APPLIED SCIENCES

DEPARTMENT OF COMPUTER SCIENCE

HND TO BSC CONVERSION PROGRAMME

2018/2019 SEMESTER EXAMINATION

**COURSE CODE: CMP 428 COURSE TITLE: Computer Security**

**INSTRUCTION: Answer question 1 and any other three (3). TIME: 2hrs**

1. (a) Give five(5) conditions that indicates t hat a computer system is available.  
(b) Using your organisation as a case study:  
(i) Identifying the computer assets in your organsiation  
(ii) Identifying threats to assets listed in (i0 above.  
(iii) Identify the impact of security attack listed in (II) above.  
(c) (i) Accoording to the trusted computer system evaluation criteria (TCSEC), write a short note on the following models of security classification  
(i) Class C2 (ii) Class B1 (iii) A1  
Class  
(d) Using your knowledge of RSA cryptography algorithml; generate the public private key when you have two prime number  $P = 59$  and  $q = 59$   
(e) Write short note on the twotypes of access control that can be implemented in an organisation.  
(f) Is it possible to have data integrity without data accuracy? Give reason(s) for your answer
2. (a) Define intrusion detection and distinguish it from misuse.  
(b) A user complained to you that his password is not compromised;; Give five minimum quality standards for passord to avoid future compromise
3. Do you currently apply any compute security control measures in your organisation? If so what against what attack are you trying to protect.
4. (a) Write short note on the following:  
(i) Interruption (ii) Interception (iii) Modification  
(b) List t he three things that an attacked needs
5. (a) Distinguish between vulnerabilities and threat  
(b) Explain cryptographic algorithm showing its mathematical expression.