

**UNIVERSITY COLLEGE TATI (UC TATI)****FINAL EXAMINATION QUESTION BOOKLET**

COURSE CODE	: BNS 2213
COURSE	: INFORMATION SECURITY
SEMESTER/SESSION	: 2 - 2022/2023
DURATION	: 3 HOURS

Instructions:

1. This booklet contains 5 questions. Answer ALL questions.
2. All answers should be written in answer booklet.
3. Write legibly and draw sketches wherever required.
4. If in doubt, raise your hands and ask the invigilator.

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO

THIS BOOKLET CONTAINS 3 PRINTED PAGES INCLUDING COVER PAGE

QUESTION 1

- a) Explain **THREE (3)** objectives of information security. (9 marks)
- b) For each objective in (a), suggest **ONE (1)** threat that related to it. (3 marks)
- c) Briefly explain each of the following terms;
- i) Asset
 - ii) Vulnerability
 - iii) Threat
 - iv) Attack
- (8 marks)

QUESTION 2

- a) List **SIX (6)** types of attacker. (6 marks)
- b) Explain the motivation for each type of attacker. (12 marks)
- a) Demonstrate a case of social engineering attack. (2 marks)

QUESTION 3

- a) Define **TWO (2)** types of risk assessment. (2 marks)
- b) Explain **FOUR (4)** process in threat analysis. (8 marks)
- c) Solve this threat analysis by calculating the Annual Lost Expectancy (ALE) of the following scenario. (6 marks)
- i) Threat: Laptops might be stolen
SLE: Replacing a stolen laptop costs RM3000
ARO: Laptops have a 5% chance of being stolen each year

ii) Threat: Laptops will become obsolete

SLE: Replacing an obsolete laptop costs RM3000

ARO: Laptops are obsolete after three years, so they lose 33% of their value each year

d) Suggest **TWO (2)** examples of how to increase awareness of information security in an organization.

(4 marks)

QUESTION 4

a) Define the responsibilities of a "Project Manager" in Contingency Plan.

(2 marks)

b) Explain **THREE (3)** components in Contingency Plan.

(6 marks)

c) Explain **ONE (1)** responsibility of crisis management team.

(2 marks)

d) Classify **FIVE (5)** sections in Business Impact Analysis.

(10 marks)

QUESTION 5

a) List **SIX (6)** examples of physical security.

(6 marks)

b) Explain **TWO (2)** ways of secure disposal and reuse of equipment.

(4 marks)

c) Demonstrate **FIVE (5)** rules of physical entry controls.

(10 marks)

-----End of question-----

