UTHM
Universiti Tun Hussein Onn Malaysia

UNIVERSITI TUN HUSSEIN ONN MALAYSIA

FINAL EXAMINATION
SEMESTER I
SESSION 2019/2020

COURSE NAME	:	INFORMATION SECURITY PROJECT MANAGEMENT
COURSE CODE	:	BIS 30703
PROGRAMME CODE	:	BIS
EXAMINATION DATE	:	DISEMBER 2019 / JANUARY 2020
DURATION	:	3 HOURS
INSTRUCTION	:	ANSWER **ALL** QUESTIONS

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THIS QUESTION PAPER CONSISTS OF **FOUR (4)** PAGES

SECTION A

Instruction: Choose the BEST answer for each of the following questions

Q1 _____ is a type of malware that appears to be legit but execute a hidden harmful malware.

     A.   Trojan Horse
     B.   Logic bomb
     C.   Rootkits
     D.   Ransomware

Q2 Hacking is motivated by _____.

     A.   political change
     B.   ego and personal hate
     C.   economic gain
     D.   military dominance

Q3 The followings are Critical National Infrastructure (CNII) **EXCEPT** _____.

     A.   transportation system
     B.   healthcare and public health
     C.   food and agriculture
     D.   education

Q4 A zero day attack is one method of social engineering attack.

     A.   TRUE
     B.   FALSE

Q5 Project management involves temporary assemblage resources to complete a project.

     A.   TRUE
     B.   FALSE

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(10 marks)

SECTION B
Answer **ALL** questions.

Q6   (a)   Differentiate **THREE (3)** categories of project stakeholders.

(6 marks)

(b)   Define escalation process with **ONE (1)** example.

(3 marks)

(c)   Give **ONE (1)** benefit of escalation process.

(1 marks)

Q7   BusinessMy Sdn. Bhd. has been suffering from increased security breaches for the last few years and is considering investing in a user behavior analytics (UBA) solution. However, the executive suite is not convinced the investment is worth it. The new CIO has decided to run some numbers. ABC's CIO estimates that ABC has been suffering about 10 (Annual Rate of Occurrence (ARO) =10) security incidents per year for the last three years. These incidents seem to cost about $22,000 (Single Loss Expectency (SLE) =22,000) in data loss, fine, and productivity. The UBA solution is projected to block about 90% (mitigation ratio = 90%) of the attacks. However, the cost for the solution is estimated at $60,000 per year.

Based on the given scenario, answer the following questions:

(a)   Give **FIVE (5)** differences of Information Security Project Management compared to the project management.

(10 marks)

(b)   Prepare Return of Security Investment (ROSI) for BusinessMy Sdn. Bhd. to show that Information Security Project is vital to the business.

(10 marks)

Q8   (a)   Project constraints can negatively impact a project. Determine how each element below can delay the completion of a project

(i)   Expertise

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(ii)   Organizational change

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(3 marks)

    (iii)   Govermental or regulatory requirements

(3 marks)

(b)   Explain **THREE (3)** categories of change(s) requested by stakeholders that are reasonable to be accepted.

(6 marks)

Q9   (a)   Discuss **THREE (3)** agenda in a Post-Project Review.

(6 marks)

(b)   Describe **TWO (2)** differences between administrative closure and contract closure.

(4 marks)

Q10   SecSolution Sdn. Bhd provides support to the government organization in term of technology and security. The management of the company is concern about the security of the service department due to many confidential data and information passing through this critical department. Assuming you are assigned as a project manager to improve the security of the department. However, after quick observation you have noticed that the security should not only cover the department but the whole five floors building. The main tasks of the project are to hardening the network communication, the database system and the physical security.

(a)   You are required to identify **THREE (3)** sub-tasks of security solutions for each major task in **Table Q10 (a)**. Please write your answer in the examination booklet.

(9 marks)

TABLE: Q10(a)

Hardening network communication	Securing the physical	Tightened Database system

(b)   Prepare Work Breakdown Structure (WBS) for the project.

(6 marks)

- END OF QUESTIONS -

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