



UNIVERSITI TUN HUSSEIN ONN MALAYSIA

**FINAL EXAMINATION
SEMESTER I
SESSION 2021/2022**

COURSE NAME : SOFTWARE AND SYSTEM SECURITY
COURSE CODE : CIE10503
PROGRAMME CODE : CIE
EXAMINATION DATE : JANUARY / FEBRUARY 2022
DURATION : 3 HOURS
INSTRUCTION : **1. ANSWER ALL QUESTIONS
2. THIS FINAL EXAMINATION
IS AN ONLINE ASSESSMENT
AND CONDUCTED VIA OPEN
BOOK**

THIS QUESTION PAPER CONSISTS OF SIX (6) PAGES

- Q1 (a)** Develop a secure relational database schema to manage the information given in **Figure Q1**.
(10 marks)
- (b)** Determine the access control policy using Discretionary access control (DAC) including the classes of subject, object and the access right according to the scenario in **Figure Q1**.
(10 marks)
- Q2 (a)** Evaluate **THREE (3)** information assets in **Figure Q2(a)** to prioritize the risk management for Megah Holding Sdn Bhd to determine which vulnerability should be evaluated for additional control first, second and last. Show the calculation.
(10 marks)
- (b)** Suggest reasonable values for the items in the risk register for this assets and threat describe in **Figure Q2(b)**, and provide justifications for your choices.
(5 marks)
- Q3 (a)** Evaluate using the common criteria of Information Technology Security Evaluation for trusted system, focusing on the **FOUR (4)** CC security functional requirements to the following system:
- (i) Maybank 2u.com
(4 marks)
 - (ii) Grab Transportation Services Mobile Application
(4 marks)
 - (iii) UTHM-SMAP Online
(4 marks)
 - (iv) Debate the evaluation result of the systems
(3 marks)
- (b)** Choose **ONE (1)** system from **Q3(a)**, develop a security testing plan to the user authentication component of the system.
(10 marks)



Q4 Questions **Q4(a)**-**Q4(b)** are based on **Figure Q4**.

- (a) Determine **FIVE (5)** critical assets. (5 marks)

- (b) Choose **ONE (1)** asset listed in **Q4(a)**:
 - (i) Propose a related security goals. (8 marks)
 - (ii) Determine the related threats. Support your answer with a misuse case diagram and / or any related diagram. (12 marks)
 - (iii) Determine the related risks. (5 marks)
 - (iv) Produce the related security requirements. (10 marks)

-END OF QUESTIONS-

FINAL EXAMINATION

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In Malaysia, taxpayers can start submitting their income tax return forms through the e-Filing system starting from March 1 of every year, unless otherwise announced by Lembaga Hasil Dalam Negeri (LHDN). This method of e-filing is becoming popular among taxpayers for its simplicity and user-friendliness. Unlike the traditional income tax filing, where taxpayers have to print out the income tax form and fill it in manually, the e-Filing income tax form calculates the income tax for the taxpayers automatically. So, questions like "how to calculate my income tax" will not be stopping them from getting their income tax returns.

Filing the tax through e-Filing also gives tax payers more time to file their taxes, as opposed to the traditional method of filing, where the deadline is usually on April 30. Other than truthfully declaring the income and reliefs, and submitting the tax files before the deadline stipulated by LHDN, taxpayers are also responsible for record keeping. Taxpayers are required to keep the following documents for seven years from the end of the year in which the Income Tax Return Form (ITRF) is filed: i) EA/EC Form, ii) Original dividend vouchers, iii) Insurance premium receipts, iv) Books purchase receipts, v) Medical receipts, vi) Donation receipts, vii) Zakat receipts, viii) Children's birth certificates, ix) Marriage certificate, x) Other supporting documents and xi) Working sheets (if any).

If taxpayers have paid income tax payment in excess via the monthly tax deductions, the excess amount will be reimbursed to the taxpayers via the bank account details that they had provided. For those who do not provide bank accounts details, taxpayers will be reimbursed via cheques or the new tax refund voucher system (BBBC), which will be implemented in stages.

However, if taxpayers have taxes due, they can pay through various methods, such as e-banking, collection agents, and the ATMs to name a few. Taxpayers can also pay their income tax via credit card. If taxpayers are looking for a card that will reward them for the tax payment, check out all the credit cards available in Malaysia. Taxpayers can also pay using FPX services, over the counter at bank branches or tele-banking.

(Adopted from :<https://www.imoney.my/articles/income-tax-guide-malaysia/how-to-pay-income-tax>)

Figure Q4: Lembaga Hasil Dalam Negeri (LHDN) case study