

CONFIDENTIAL



**UTHM**  
Universiti Tun Hussein Onn Malaysia

**UNIVERSITI TUN HUSSEIN ONN MALAYSIA**

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

COURSE NAME : WEB APPLICATION  
COURSE CODE : BIW 10203  
PROGRAMME CODE : BIW  
EXAMINATION DATE : JANUARY / FEBRUARY 2022  
DURATION : 3 HOURS  
INSTRUCTION : 1. ANSWERS ALL QUESTIONS.  
2. THIS FINAL EXAMINATION IS  
CONDUCTED ONLINE AND CLOSE  
BOOK.

THIS QUESTION PAPER CONSISTS OF **THREE(3)** PAGES

**CONFIDENTIAL**



**Q1 Based on the given scenario, answer Q1(a)-Q1(d).**

Assuming a company has a single store outside of Johor, Malaysia, where it sells almost RM 80 million in maintenance, repair, and operations (MRO) products each year. MRO is any product that is used in the manufacturing process but is not incorporated into the product itself. This includes consumables such as cleaning supplies used to clean production machinery, supplies used to support operations, office supplies, and small equipment such as fans and compressors. The company is interested in entering the e-commerce field and designing a Web application that can reach customers across the country. A small group of employees is working with an experienced web developer to design a new web application.

- (a) Do you think the company's goal will be achieved by converting its business processes from the traditional form to e-commerce processes? Justify your answer. (6 marks)
- (b) Discuss **THREE (3)** challenges the company will face when converting its business processes from the traditional form to e-commerce processes. Support your answer with examples. (6 marks)
- (c) Provide and explain **TWO (2)** criteria when considering web hosting for an e-commerce system. Support your answer with examples. (6 marks)
- (d) Explain briefly **THREE (3)** different forms of e-commerce. (6 marks)

- Q2** (a) In your opinion, is it important for the migration project manager to know that the company prefers non-IT or professional IT personnel to manage website content? Explain the reason and support your answer with examples. (7 marks)
- (b) "During the COVID-19 pandemic, the suspension of face-to-face teaching in schools has caused concerns about the impact on student learning." As a web developer, how you can help in this matter? Explain the main features of the suggested system. (8 marks)

- (c) Nowadays, most of us use the Internet to buy and sell through online banking.
  - (i) Discuss **THREE (3)** potential techniques hackers use to break into user accounts. Support your answer with examples (6 marks)
  - (ii) Suggest **TWO (2)** steps that users should take to protect their accounts (2 marks)
  
- Q3** (a) Do you think that there is a difference between acting ethically and acting legally? Justify your answer. (6 marks)
  
- (b) Explain briefly some of the privacy concerns that consumers might have in terms of shopping on the internet. (6 marks)
  
- Q4** (a) “A factory manager is considering to migrate its software solutions to a cloud environment to improve the IT and business operating efficiency. The factory is part of a very competitive industry where strict data privacy issues are key success factors for survival of the company.”  
  
Based on the above scenario, recommend a type of cloud deployment model to factory. State the reason for your answer. (5 marks)
  
- (b) Do you think cloud computing platforms are suitable for web application startup companies that are starting small and hoping to grow rapidly? Justify your answer. (6 marks)

**END OF QUESTIONS**