



UNIVERSITI TUN HUSSEIN ONN MALAYSIA

**FINAL EXAMINATION
SEMESTER II
SESSION 2023/2024**

- COURSE NAME : CLOUD COMPUTING
- COURSE CODE : BIW 33703
- PROGRAMME CODE : BIW
- EXAMINATION DATE : JULY 2024
- DURATION : 3 HOURS
- INSTRUCTIONS :
1. ANSWER ALL QUESTIONS
 2. THIS FINAL EXAMINATION IS CONDUCTED VIA
 - Open book
 - Closed book
 3. STUDENTS ARE **PROHIBITED** TO CONSULT THEIR OWN MATERIAL OR ANY EXTERNAL RESOURCES DURING THE EXAMINATION CONDUCTED VIA CLOSED BOOK

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

Q1 AmeenTech Sdn. Bhd. need to deploy an email service for their regular customer by using a cloud service provider.

(a) Discuss **FIVE (5)** constraints of using cloud computing to deploy an email service.

(10 marks)

(b) Examine **FIVE (5)** solutions that a company should revise to overcome constraints in **Q1(a)**.

(10 marks)

(c) Outline **FIVE (5)** characteristics of cloud computing.

(10 marks)

Q2 Consider the following scenario:

You are the IT consultant for Company RufayTech. There are requirements to add more hardwares and softwares for Finance department. You have heard about cloud computing services. The top management asked you to decide either to buy or lease from cloud computing service.

Based on the case study above, answer the questions below.

(a) Prepared a proposal to top management either to buy or lease from cloud computing services.

(15 marks)

(b) Determine the type of services required for this company to lease services from a cloud computing company.

(3 marks)

(c) Suggest **TWO (2)** appropriate cloud computing service provider for **Q2(b)**.

(2 marks)

Q3 Cloud computing is applications and services that run on a distributed network using virtualized resource and accessed by common Internet protocols and networking standards.

(a) Discuss **FIVE (5)** factors in the term of cloud from an economic viewpoint or clouconomics.

(10 marks)

(b) Discuss **FOUR (4)** steps for successful capacity planning in cloud computing.

(8 marks)

(c) What does economy of scale mean in IT investment and operation decisions?

(2 marks)

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Q4 UTHM enrollment has reached 15,000 students. The management asked you to conduct research to use cloud-based backup and restore services to deal with the growth. However, they worried about the storage space on the premise of the student and corporate data.

(a) Analyse the **THREE (3)** types of backup and restore approaches to be proposed to the management

(6 marks)

(b) Proposed a suitable approach for backup and restore in this scenario. Justify your answer.

(4 marks)

Q5 Discuss **FIVE (5)** cybersecurity issues or challenges in implementation of cloud computing.

(10 marks)

Q6 Suggest an appropriate solution to overcome each problem in **Q5**.

(10 marks)

- END OF QUESTIONS -

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