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UTHM
Universiti Tun Hussein Onn Malaysia

UNIVERSITI TUN HUSSEIN ONN MALAYSIA

FINAL EXAMINATION
(ONLINE)
SEMESTER II
SESSION 2019/2020

COURSE NAME	:	PERVASIVE COMPUTING
COURSE CODE	:	BIW 33403
PROGRAMME CODE	:	BIW
EXAMINATION DATE	:	JULY 2020
DURATION	:	2 HOURS 30 MINUTES
INSTRUCTION	:	1. ANSWER **ALL** QUESTIONS
		2. PLEASE MAKE SURE TO CLICK "SAVE ANSWER" BUTTON FOR SUBJECTIVE QUESTIONS. OBJECTIVE QUESTIONS ARE SAVED AUTOMATICALLY.

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

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Q1   (a)   Describe **THREE (3)** benefits of using Radio Frequency Identification (RFID) network in a store product identification's application.

(6 marks)

(b)   Illustrate a RFID network in **Q1(a)**.

(4 marks)

(c)   Compare and fill in appropriate answers in each of the blank spaces for **Table Q1(c)**.

Table Q1(c)

Technology/Factors	Near Field Communication (NFC)	Bluetooth
Transmission Distance		
Transfer Rate		
Band		
Power Consumption		
Cost		

(10 marks)

Q2   (a)   Rufayda Inc. had opportunity to develop a mobile application for student's volunteer system in UTHM.

Discuss **THREE (3)** types of data-oriented mode in a mobile data delivery for the statement above.

(6 marks)

(b)   Classify the usage of an ACID approach in designing database for mobile application in **Q2(a)**.

(10 marks)

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Q3 Classify **SIX (6)** functions of Wireless Session Protocol (WSP) use in implementation of Web-based Mobile Application.

(12 marks)

Q4 Fathan Tech Sdn.Bhd. want to make a stand alone information system available for mobile access by the customers.

(a) Summarize **FIVE (5)** abilities of Context Modelling Language (CML) in managing information for context aware computing.

(10 marks)

(b) Analyze **FOUR (4)** key technologies in mobile middleware that can be used in **Q4 (a)**.

(12 marks)

- END OF QUESTION

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