UTHM
Universiti Tun Hussein Onn Malaysia

UNIVERSITI TUN HUSSEIN ONN MALAYSIA

FINAL EXAMINATION
SEMESTER I
SESSION 2021/2022

COURSE NAME	:	PRINCIPLE OF INFORMATION TECHNOLOGY
COURSE CODE	:	BIT 11203
PROGRAMME CODE	:	BIT
EXAMINATION DATE	:	JANUARY / FEBRUARY 2022
DURATION	:	3 HOURS
INSTRUCTION	:	1. ANSWERS **ALL** QUESTIONS.
		2. THIS FINAL EXAMINATION IS CONDUCTED ONLINE AND CLOSE BOOK

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

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Q1 Explain the difference between:

(a) Compiler and Assembler

(4 marks)

(b) Batch Processing and Real Time Processing

(4 marks)

(c) Intranets, Extranets, and VPNs

(6 marks)

Q2 Give **ONE (1)** application for each of these that uses a cloud platform.

(a) Communication

(2 marks)

(b) Social media

(2 marks)

(c) Data analytics

(2 marks)

Q3 Discuss how these technology advancements have given an impact to our daily life.

(a) Wearable device

(3 marks)

(b) Electronic money

(3 marks)

Q4 There are a few types of Computer-Based Information System. Among them are Decision Support System (DSS), and Expert System (ES). Describe **THREE (3)** key differences between DSS and ES.

(9 marks)

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Q5   UTHM is in the process to develop a new attendance system for the students.

     (a)   State an established methodology to ensure the project is successful.

             (2 marks)

     (b)   Name **THREE (3)** major stakeholders for the project.

             (3 marks)

     (c)   Apply the methodology in **Q5 (a)** for the project and discuss **ALL** the steps needed, each with specific action.

             (15 marks)

Q6   Sketch a network design for a Shoes company based on a scenario in **Figure Q6**.

> The Shoes Company has a bus local area network for the Sales department that consists of six personal computers, a modem used by outside field representatives to call in for price data, a shared laser printer, sharedmarketing program and data files and a server. Meanwhile, the LAN for theR&D department also has a bus network that consists of three personal computers, a shared printer, shared files and a server. Both LAN use the Ethernet protocol and have client/server relationships. The R&D department sometimes sends its in-progress work to the Sales representatives for their evaluation. Similarly, the Sales department sends new ideas from the field to the R&D department. The two departments communicate to another via a bridge.

Figure Q6

             (25 marks)

Q7   Discuss the continuous evolution process of internet technologies and machines in each of the phases as shown in **Figure Q7**.
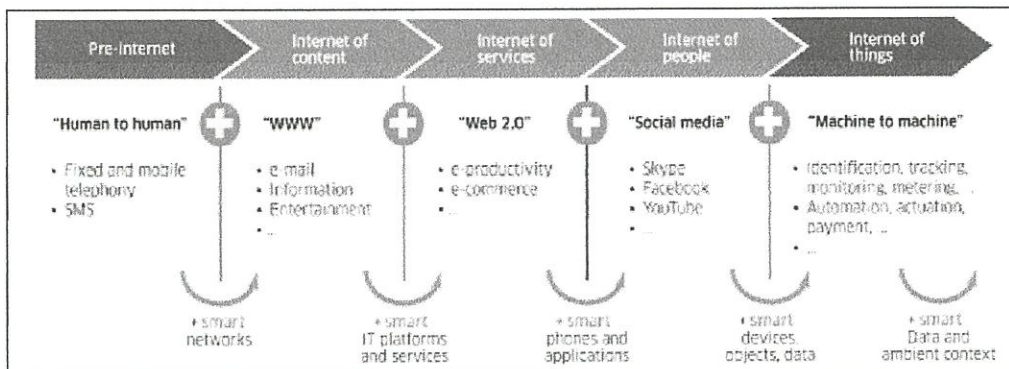

Figure Q7

             (20 marks)

– END OF QUESTIONS –

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