UTHM
Universiti Tun Hussein Onn Malaysia

UNIVERSITI TUN HUSSEIN ONN MALAYSIA

FINAL EXAMINATION
SEMESTER I
SESSION 2013/2014

COURSE NAME	:	MANAGEMENT INFORMATION SYSTEM
COURSE CODE	:	BPA 20703
PROGRAMME	:	2 BPC
EXAMINATION DATE	:	DECEMBER 2013 / JANUARY 2014
DURATION	:	2 HOURS 30 MINUTES
INSTRUCTION	:	ANSWER **ALL** QUESTIONS

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

Q1   Data mining helps organisation capture undiscovered information residing in large databases. The types of information that can be obtained from data mining consists of association, sequence, classification, clustering and forecasting.

Discuss each type of information that can be obtained with example in the context of the construction industry.

(20 marks)

Q2   A telecommunication system consists of a collection of compatible hardware and software arranged to communicate information from one location to another.

Illustrate the following terms that are used in telecommunication systems:

(a)   **THREE (3)** basics topologies used in Local Area Network (LAN).

(9 marks)

(b)   Packet-Switch networks.

(3 marks)

(c)   Radio Frequency Identification (RFID) and how it works.

(4 marks)

(d)   Modem and its function.

(4 marks)

Q3   Decision Support System (DSS) is constructed from a variety of models with the function to analyse the data or compress large amounts of data into a form that can be analysed by decision makers.

(a)   Explain **THREE (3)** major DSS components.

(6 marks)

(b)   In order to construct the model, DSS needs internal and external data.

Compare each types of data.

(4 marks)

(c)   Assume that a decision regarding low cost housing development has to be made.

Outline **FIVE (5)** internal and external data in a DSS that need to be constructed.

(10 marks)

Q4 Artificial intelligence (AI) is a common phrase in our modern business world and is defined as "behaviour by machines that, if performed by a human being, would be called intelligent".

(a) Explain **FOUR (4)** advantages of AI compared to natural intelligence.

(8 marks)

(b) Discuss **FOUR (4)** AI techniques.

(12 marks)

Q5 Teguh Bina Company is a large construction company and capable in completing large housing project. Each time when there is large construction project, the company has to order construction materials such as cement, bricks, steel, sand, paint and others from different suppliers. As a result, the orders are insufficient and most of the time this problem causes disruption in construction. To overcome the problem, Teguh Bina Company discovers that it has to improve the management of its inventory with the suppliers. As the Project Manager to Teguh Bina Company, you are required to study the problem by looking at the process starting with the order until delivery of the construction materials to the construction site.

Among the questions that you need to answer are:

(a) Define Supply Chain Management System.

(2 marks)

(b) Explain **FIVE (5)** factors of the need for Supply Chain Management System in Teguh Bina Company.

(10 marks)

(c) Discuss **TWO (2)** types of Supply Chain Management System that can be suggested to Teguh Bina Company.

(8 marks)

-END OF QUESTION-