UTHM
Universiti Tun Hussein Onn Malaysia

UNIVERSITI TUN HUSSEIN ONN MALAYSIA

FINAL EXAMINATION
SEMESTER I
SESSION 2022/2023

COURSE NAME : SYSTEM ANALYSIS AND DESIGN

COURSE CODE : BIT 20103

PROGRAMME CODE : BIT

EXAMINATION DATE : FEBRUARY 2023

DURATION : 3 HOURS

INSTRUCTION :
1. ANSWER ALL QUESTIONS
2. THIS FINAL EXAMINATION IS CONDUCTED VIA **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 **FOUR (4)** PAGES

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Q1   (a)   Answer **Q1(a) (i)** and **Q1(a) (ii)** based on **Figure Q1**.

> Soo See Ying is a newly hired systems analyst. Soo has always felt that questionnaires are a waste. Now that you will assist Soo to develop a systems project for Megat Trucks, Inc., a national trucking firm with branches and employees in 130 cities, you want to use a questionnaire to elicit some opinions about the current and proposed systems.

Figure Q1

   (i)   Give **THREE (3)** persuasive reasons why he should use a survey for **Figure Q1**.

(6 marks)

   (ii)   Soo See Ying has agreed to use a questionnaire but strongly urges that all questions be open-ended so as not to constrain the respondents. Given your careful arguments on trade-offs involves with each question type, to persuade Soo that closed questions are useful as well.

(9 marks)

   (b)   Describe **THREE (3)** requirement analysis strategies.

(10 marks)

Q2   Answer **Q2(a) - Q2(c)** based on **Figure Q2**.

> TeaLize Drink wants to install a system to record orders for tea and coffee drinks. When regular customers call TeaLize Drink on the phone, they are asked their phone number. When the number is typed into a computer, the name, address, and last order date is automatically brought up on the screen. Once the order is taken, the total, including tax and delivery, is calculated. Then the order is given to the cook. A receipt is printed. Occasionally, special offers (coupons) are printed so the customer can get a discount. Drivers who make deliveries give customers a copy of the receipt and a coupon (if any). Weekly totals are kept for comparison with last year's performance.

Figure Q2

   (a)   List all the entities.

(5 marks)

   (b)   Describe **FOUR (4)** processes.

(10 marks)

   (c)   Draw a Context Diagram.

(10 marks)

Q3 Answer **Q3(a)** - **Q3(c)** based on **Figure Q3**.

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MOTOR QUOTATION SLIP FOR NEW BUSINESS

Name	MAZNAH BINTI ISMAIL
Address	50 TL 41/5 PARIT SURATMAN, BATU PAHAT, BATU PAHAT, 83710 YONG PENG JOHOR
IC / Business Passport / Other Number	
Passport No	
Phone Number	

SCHEDULE

Make & Model of Vehicle	PERODUA MYVI 1.5 SE(AUTO)	Cubic Capacity H.P. of Tonnage	1496.0 CC
Vehicle Body	4D HATCHBACK	Sum Covered	42,000.00
Registration No Vehicle	VDK465	Excess	0.00
Registration Card No		Use of Vehicle	Private Use
Year of Manufacture	2019	Coverage	COMPREHENSIVE
Engine No		Vehicle Type	PRIVATE CAR
Chassis No		Takaful Contribution(RM)	933.72
Seating Capacity	5	Service Tax	50.42
Effective Date	30/06/2020 to 29/06/2021	Stamp Duty	10.00
		Total Due	900.75

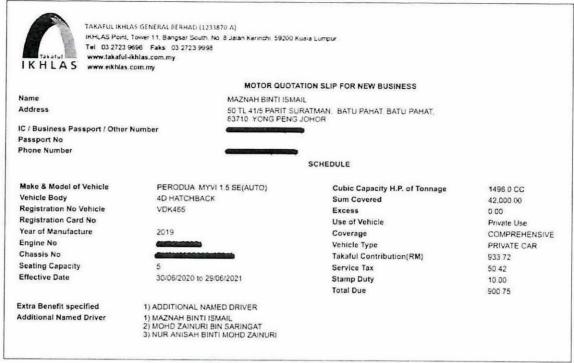|	
Extra Benefit specified	1) ADDITIONAL NAMED DRIVER
Additional Named Driver	1) MAZNAH BINTI ISMAIL 2) MOHD ZAINURI BIN SARINGAT 3) NUR ANISAH BINTI MOHD ZAINURI

Figure Q3

(a)   Write **FOUR (4)** entities.

(4 marks)

(b)   For each entity answered in **Q3(a)**, write four attributes, and state the primary key.

(8 marks)

(c)   Draw an Entity Relationship Diagram (ERD).

(13 marks)

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Q4   Based on **Figure Q4,** draw a form consist of menus. The menu provides the customer to enter her/his information, products and orders. For all three information categories, the customer be able to change, delete, find one specific record, or list all records.

> Sharifah Pharmacy is a major pharmaceutical company in Batu Pahat. They want to go 'on-line' with an e-commerce pharmacy. Obviously, a lot of time and effort has gone into planning and analysis. They are working on the web user interface currently. They are considering the standard 'shopping cart' icon and metaphor. For patients ordering medications online, they need to capture the medication name (like Zocor).

Figure Q1

(10 marks)

Q5   Answer questions **Q5(a)** and **Q5(b)** based on **Figure Q5**.

> BioFoods International is concerned with providing low-cost foods to nations that cannot afford the wholesome and nutritional foods that are so common in more developed countries. BioFoods International is adopting a new computer system that will enable their international managers to place orders with us directly, ensuring accurate and fulfilling orders to each of our constituents.

Figure Q5

(a)   Identify **TWO (2)** types of cultural requirements that should be considered in acquiring the new system.

(5 marks)

(b)   Draw an architecture design for the system.

(10 marks)

-END OF QUESTIONS –

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