



UNIVERSITI TUN HUSSEIN ONN MALAYSIA

**FINAL EXAMINATION
SEMESTER II
SESSION 2022/2023**

- COURSE NAME : SOFTWARE PROJECT MANAGEMENT
- COURSE CODE : BIE 30503.
- PROGRAMME CODE : BIP
- EXAMINATION DATE : JULY / AUGUST 2023
- DURATION : 3 HOURS
- INSTRUCTIONS :
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

Q1 Questions Q1(a) to Q1(c) are based on Figure Q1.

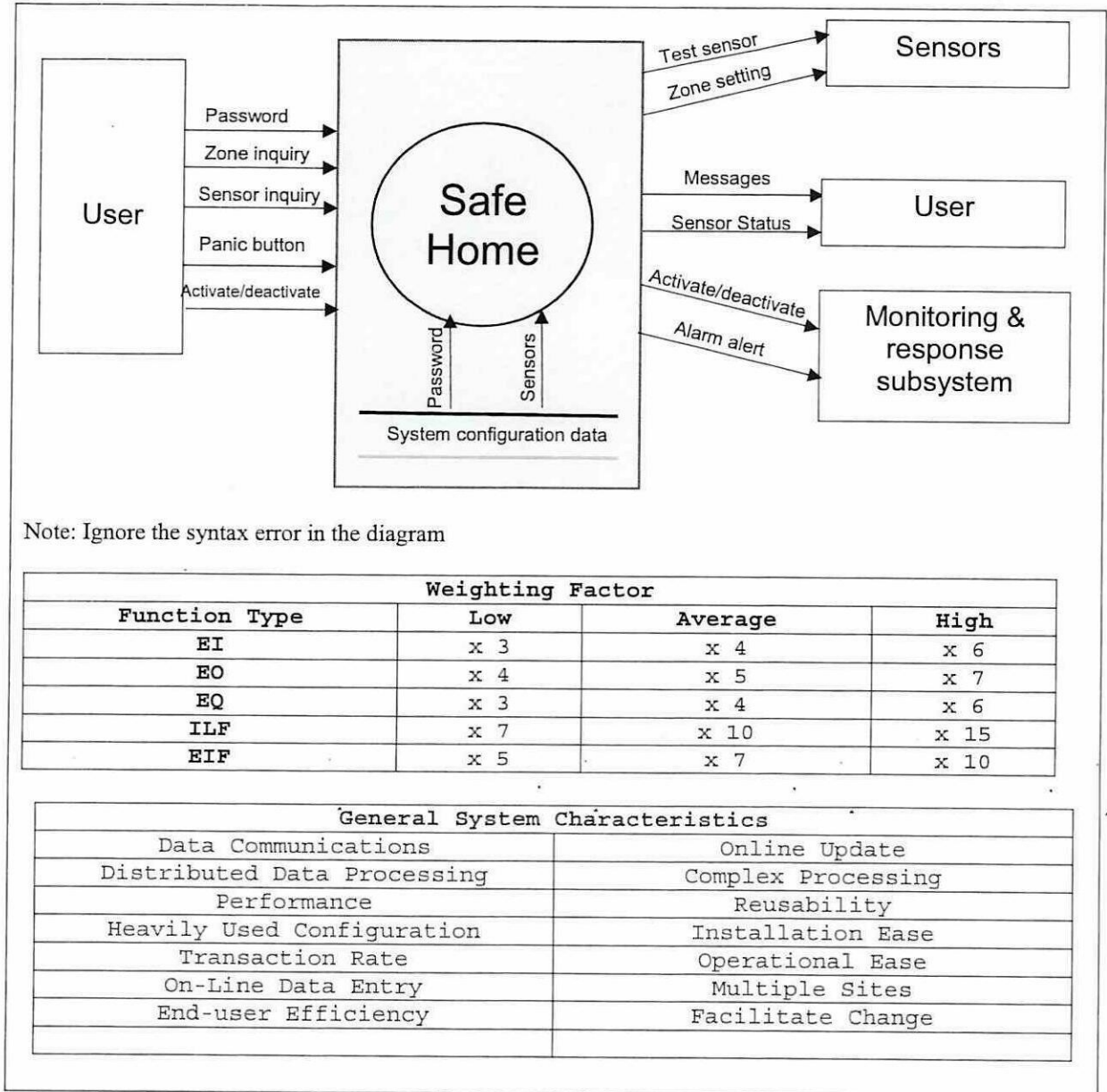


Figure Q1

- (a) Calculate Unadjusted Function Point (UFP) for Safe Home system. Please show your works and state your assumptions. (20 marks)
- (b) Calculate Complexity Adjustment Factors (CAF) for Safe Home system. Please show your works and state your assumptions. (6 marks)
- (c) Estimate the person-month effort of Safe Home if the average productivity is 12FP/person-month and there are two developers. (4 marks)

Q2 Identify the best communication media for the following scenario. Justify your answer.

(a) The majority of the project's technical team arrive between 9.30 and 10.00 a.m., although the business users always arrive earlier. Comments have been made by the business users. Although many of the technical staff members leave late, the project manager expects them to arrive by 9.00 a.m.

(5 marks)

(b) Your business is submitting a bid for a project in the entertainment sector. You are aware that you require fresh ideas on how to organize the proposal and persuade the client of your strategy.

(5 marks)

(c) Your company has been expanding effectively, but you are now receiving a deluge of calls and emails with the same kinds of inquiries.

(5 marks)

(d) You want to make sure that a sizable group of individuals hears a general announcement you need to make.

(5 marks)

Q3 Questions Q3(a) to Q3(c) are based on the scenario given in **Figure Q3**.

Cost Categories	Renting Costs (RM)	Leasing Costs (RM)
Annual maintenance	0.00	3000.00
Daily operation	0.00	70.00
Daily rental	100.00	0.00

Figure Q3

(a) Calculate the number of days the lease cost will be the same as the renting cost for the equipment.

(4 marks)

(b) Assume your company would only use the equipment for 10 months (1st January 2023 to 31st October 2023). Propose a plan to your company whether the company should rent or lease it.

(6 marks)

Q4 Questions **Q4(a)** to **Q4(c)** are based on **Table 1**.

Table 1: Activities and their predecessor

Activity	Predecessor	Duration	Number of People
A	-	2	1
B	A	3	1
C	A	2	1
D	B	3	1
E	C	4	2
F	D	2	1
G	B	1	1
H	D	3	2
I	C	2	1

(a) Draw a Gantt Chart. (10 marks)

(b) Draw a Resource Histogram. (10 marks)

Q5 Questions **Q5(a)** to **Q5(c)** are based on **Table 2**.

Table 2: Estimated Profits

Project	Chance of Outcome (percent)	Estimated Profits (RM)
Project 1	50	120,000.00
	50	-50,000.00
Project 2	30	100,000.00
	40	50,000.00
	30	-60,000.00
Project 3	70	20,000.00
	30	-5,000.00
Project 4	30	40,000.00
	30	30,000.00
	20	20,000.00
	20	-50,000.00

(a) Draw a decision tree analysis. (4 marks)

(b) Find the Expected Monetary Value (EMV) for each project. (4 marks)

(c) Determine which project should be selected. (2 marks)

-END OF QUESTIONS -

TERBUKA