

UNIVERSITI TUN HUSSEIN ONN MALAYSIA

FINAL EXAMINATION SEMESTER II SESSION 2021/2022

COURSE NAME

: SOFTWARE PROJECT MANAGEMENT

COURSE CODE

: BIE 30503

PROGRAMME CODE

: BIP

EXAMINATION DATE

: JULY 2022

DURATION

: 3 HOURS

INSTRUCTION

: 1. ANSWER ALL QUESTIONS.

2. THIS FINAL EXAMINATION IS AN ONLINE ASSESSMENT AND 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 SEVEN (7) PAGES

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project.

Q1	Questions Q1(a) - Q1(c) are based on Table Q1.			
	(a)	Draw a network diagram. Show the earliest and the latest completion time for each node. (15 marks)		
	(b)	Determine the earliest time in weeks to complete the project. Justify your answer. (5 marks)		
	(c)	Draw a histogram diagram. (10 marks)		
Q2	Determine the best communication methods classification and med following scenario.			
	(a)	You want the client to be able to look at the project details whenever they want. (4 marks)		
	(b)	You were providing senior executives with an update of the progress of a		

- (d) You were trying to assess commitment of project stakeholders. (4 marks)
- (e) You require an update from a contractor or supplier. (4 marks)

(4 marks)



03 List **FIVE** (5) possible reasons for a company to outsource. (5 marks)

- Calculate Expected Monetary Value (EVM) for the scenario in Figure Q4. Q4 (10 marks)
- Answer Q5(a) and Q5(b) based on the case study in Figure Q5. Use the factors Q5 in Table Q5(a) and Table Q5(b).
 - Calculate the software size in terms of use case points. Please show your (a) works and state your assumptions.

(20 marks)

Calculate the duration in week for the project. Assuming that each use case point will take 28 hours and there will be two developers that will spend 30 hours per week for the development.

(15 marks)

- END OF QUESTIONS -

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3



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Table Q1: List of activities in a project

Activity	Weeks	Number of people	
1-2	2	3	
1-3	4	2	
1-4	5	4	
2-5	6	5	
3-5	6	3	
4-6	7	4	
5-6	5	2	

You're in charge of an IT project and have discovered a potential danger relating to client demand. You did, however, notice an opportunity to raise the selling price. Risk, on the other hand, is a 10% chance, and if it occurs, you will lose RM5000. The chance of opportunity, on the other hand, is 15%, and if it occurs, you will earn RM30,000.

Figure Q4



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Everyone using the system will be able to view the products sold by TSSC. Stock and delivery updates are made by the staff in charge of the day to update on the list of delivered dresses and new stocks update. The delivery function is to notify registered customers that their items purchased have been delivered and will monitored by staff to keep in track of the items in case customers have not received the items.

This system will be used by TSSC manager, TSSC staffs and customers. TSSC manager will be able to generate report on highest dress sale and peak hour which is visited by customers. A statistic based on age, gender and dresses mostly viewed can be also generated. TSSC staffs will be able to update product details and delivery of products. Customers will be able to view products available, order and pay using this system. The main functions are described in the following use case diagram.

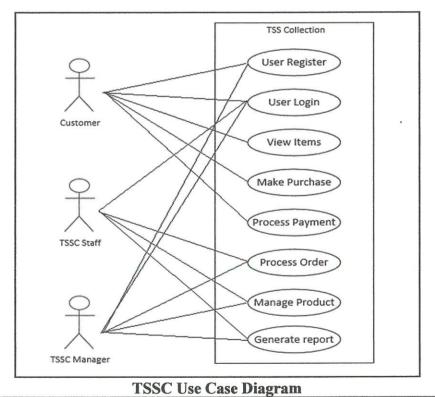


Figure Q5

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Table Q5(a): Technical Complexity Factor (TCF)

Factor	Description	Weight
T1	Distributed system	2
Т2	Response time/ performance objectives	1
Т3	End-user efficiency	1
Т4	Internal processing complexity	1
T5	Code reusability	1
Т6	Easy to install	0.5
Т7	Easy to use	0.5
Т8	Portability to other platforms	2
Т9	System maintenance	1
T10	Concurrent/parallel processing	1
Т11	Security features	1
T12	Access for third parties	1
T13	End user training	1

Table O5(b): Environmental Complexity Factor (ECF)

Factor	Factor Description		
E1	Familiarity with development process used	1.5	
E2	Application experience	0.5	
E3	Object-oriented experience of team	1	
E4	Lead analyst capability	0.5	
E5	Motivation of the team	1	
E6	Stability of requirements	2	
E7	Part-time staff	-1	
E8	Difficult programming language	-1	

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