

UNIVERSITI TUN HUSSEIN ONN MALAYSIA

FINAL EXAMINATION SEMESTER I SESSION 2018/2019

COURSE NAME

HUMAN-COMPUTER

INTERACTION

COURSE CODE

BIM 30503

PROGRAMME CODE :

BIM / BIP

EXAMINATION DATE :

DECEMBER 2018 / JANUARY 2019

DURATION

3 HOURS

INSTRUCTION

(A) ANSWER ALL QUESTIONS

(B) PLEASE WRITE YOUR

ANSWERS IN THIS QUESTION

BOOKLET

THIS QUESTION PAPER CONSISTS OF THIRTEEN (13) PAGES



Q1

(a)	Define 'human factor'. (2 marks)
(b)	is the human factor that affected by the distance and size of target.
	(1 mark)
(c)	Suggest TWO (2) ways on how the human factor in Q1(b) will be considered in designing good interface.
	(4 marks)
(i)	
(ii)	
(d)	Describe THREE (3) factors that will affect the performance of human factor in
	Q1(b) when interacting with the system. (6 marks)
(i)	
(ii)	
····	
(iii)	
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Q2

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(a)	List any THREE (3) categories of stakeholders.	(3 marks)
(i)		
(ii)		
(iii)		
(b)	Explain THREE (3) categories of stakeholders in Q2(a).	(6 marks)
(i)		
(;;)		
(ii)		
(iii)		



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(c) Analyze **TWO** (2) stakeholders involve in each category answered in **Q2(a)** for Hotel Finder System (such as Trivago).

(6 marks)

Category 1	(i) (ii)
Category 2	(i) (ii)
Category 3	(i) (ii)

Q3 Given the following scenario:

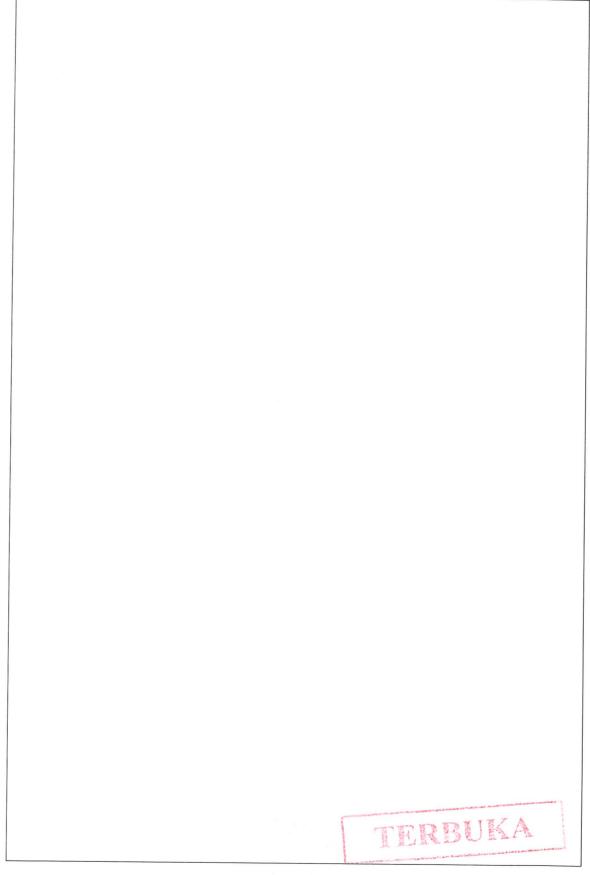
Alice gets into her hotel room late and she is hungry. She wants to order room services so she opens up the guest book and sees that she can order one of three sandwiches from the menu at any time of night. So she dials the number stated in the guest book, a recording answers asking her to type in the number of the sandwich she wants. The guest book has a number code next to each sandwich so Alice type 23 into the phone key pad to order a tuna sandwich. She is then told to confirm that she wants a tuna sandwich by pressing 1. She does so and is informed that her sandwich will arrive in 10 minutes. After waiting for 10 minutes, she gets a knock at her door and a robotic trolley delivers her sandwich.



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(a)	Draw a process.	graphical	hierarchical	task	analysis	(HTA)	for	the	sandwic	h orde	ring
										(10 ma	ırks)
						of Corporation Control on the	and the same	ne drawing cities he stand	THE STATE OF THE S		
						TE	R	31	JKA		



(b)	Based on the given scenario, the hotel management plans to change the sandwich ordering process from phone call to mobile technology with attractive interface as soon as possible. The automated delivery system using the robot will be remained. As Head of IT Department, you are being asked to:						
	(i)	Suggest the best design approach that will be applied in this project. Give ONE (1) reason for your suggestion.					
		(4 marks)					
,	(ii)	Propose THREE (3) appropriate methods that will be combined to gather new requirements based on the design approach answered in Q3(b)(i). (6 marks)					
		(i)					
		(;;)					
		(ii)					
Met	thods						
		(iii)					
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(iii)

Justify TWO (2) reasons for the proposed combination as answered in

	Q3(b)(ii).			(4	1 marks)
Justification	(ii)				
	Analyze FIVE (5) usability requirements principles that will be applied in this project.	based	on		design marks)
(i)					
(ii)					
(iii)					
(iv)					
(v)					

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	(v)	Draw THREE (3) interface design ordering system based on the requiren	ns of the proposed mobile sandwich nent answered in Q3(a) and Q3(b)(i). (15 marks)
(i)			
			The second second in the case of the case
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(ii)		
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(iii)	
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(vi) Suggest **TWO** (2) approaches of user support (user help) that can be applied in this project. Give your justification for each approach.

(6 marks)

Approach	Justification
(i)	
(ii)	

	(3 m
(b)	Justify ONE (1) reason why usability testing needs to be conducted in a contresetting.
	(2 ma

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(c)	List FOUR (4) to	echniques that can be used for usability testing.	(4 marks)
	(i)		
	(ii)		
	(iii)		
	(iv)		
(d)		st technique for usability testing as answered in in the proposed user interface design based on the ur answer.	Q4(c) to scenario in (4 marks)
			(
Te	chnique		
Jus	stification		
(e)	Analyze TWO (2 testing using the t) possible problems that you might found after conducting echnique as answered in Q4(d) for scenario in Q3(b).	ng usability
			(4 marks)
(i)			
410			
(ii)			

-END OF QUESTION -



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