

UNIVERSITI TUN HUSSEIN ONN MALAYSIA

FINAL EXAMINATION SEMESTER I SESSION 2022/2023

COURSE NAME

MOBILE COMPUTING

COURSE CODE

DAT 20503

PROGRAMME CODE

DAT

EXAMINATION DATE

FEBRUARY 2023

DURATION

2 HOURS 30 MINUTES

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 SIX (6) PAGES

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SECTION A

Identify whether each of the following statements is TRUE or FALSE.

Q1	Bluetooth relies on long-range radio frequency and can communicate within a distar	nce. (1 mark)
Q2	MANET can create a highly dynamic network environment in terms of topology, parouting, and service provision and consumption.	ncket
Q3	Corresponding node defines the mobile node's current position or user.	(1 mark)
Q4	Internet Based Mobile Ad hoc Networks (iMANET) helps to link non-fixed nodes.	(1 mark)
Q5	Mobile Internet Protocol allows users to move from one network to another with the sIP address.	
Q6	Mobile software allows smartphones, personal computers, and other devices to run applications and programs.	(1 mark)
Q 7	With m-Commerce, a computer in which a user must find a location with an internet connection.	
Q8	Mobile healthcare is one of the examples in e-commerce.	(1 mark)
Q9	Earlier mobile devices usually provide 4 to 16 MB of static RAM.	(1 mark)
Q10	Stream data processing is where network communications are more frequent on mobil terminals than on desktop computers.	
		(1 mark)

SECTION B

Answer all questions.

Q11	(a)	Explain Bluetooth technology with an example.	
	(b)	Discuss the advantages and disadvantages.	(3 marks)
	(0)	Discuss the advantages and disadvantages.	(8 marks)
	(c)	Define mobile internet protocol.	(1 mark)
	(d)	Name TWO (2) components in the mobile internet protocol.	(2 marks)
	(e)	Sketch the architecture of mobile internet protocol.	D 6
	(f)	Explain Bluetooth technology specifications.	(6 marks)
			(10 marks)
Q12	(a)	Discuss FOUR (4) advantages of M-commerce.	(8 marks)
	(b)	Explain the characteristics of mobile processors.	
	(c)	Define mobile software.	(6 marks)
			(2 marks)
	(d)	In your opinion, discuss how the technology evolvement enhance the use of mobile commerce with examples.	
	(e)	Name FOUR (4) categories in mobile hardware.	(4 marks)
	30. Z		(4 marks)

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	(f)	In your own words, explain TWO (2) types of mobile commerce application	ns you use.
			(6 marks)
Q13	(a)	Name TWO (2) ways to do if the apps are not responding in the emulator.	(2 marks)
	(b)	Refer to Figure Q13 (b), and identify the layout provided in the user interfa	ce. (4 marks)
	(c)	Refer to Figure Q13 (c), state how to create an intent page.	(1 mark)
	(d)	Refer to Figure Q13 (d), and write code for the given calculator app.	(20 marks)
	(e)	Name ONE (1) wireless security issue.	(1 mark)
	(f)	Discuss ONE (1) recent trend in mobile computing technologies.	(2 marks)

-END OF QUESTIONS-

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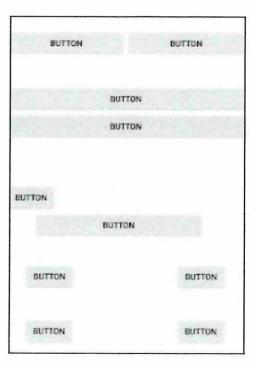


Figure Q13 (b)

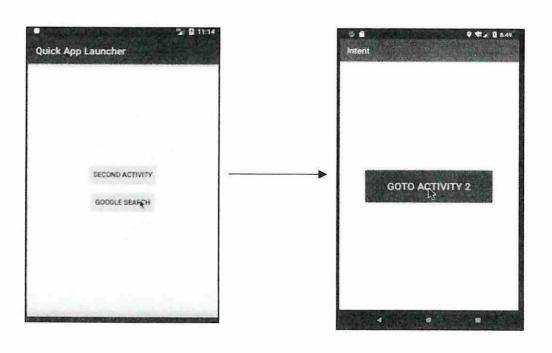


Figure Q13 (c)

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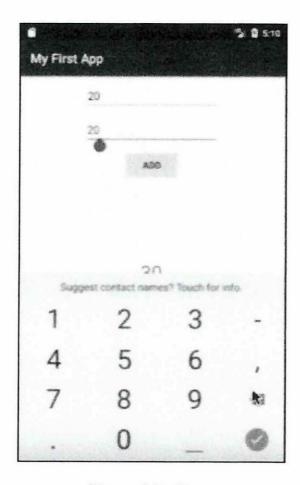


Figure Q13 (d)

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