

Sample/practice exam 2014, questions

Mobile Computing Systems Programming (University of Melbourne)

Student Number:	
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The University of Melbourne

Semester 2 Sample Assessment 2014

Department of Computing and Information Systems COMP90018 Mobile Computing Systems Programming

Reading Time 15 minutes. **Writing Time** Three hours.

This paper has 10 pages including this cover page.

Identical Examination Papers: None. **Common Content Papers:** None.

Authorised Materials: None.

Instructions to Invigilators:

Students will write all of their answers on this examination paper. Students may not remove any part of the examination paper from the examination room.

Instructions to Students:

This paper counts for 60% of your final grade. All questions must be answered in the indicated answer boxes provided on the examination paper. Answer each of the following questions by writing a brief response or explanation (no essays please!). Only material written inside the boxes will be marked. If you need to make rough notes, or prepare draft answers, you may do so on the reverse of any page. If you need additional space for your answers, you may use the overflow section on the last page.

Paper to be held by Baillieu Library: No.

Examiner use only:

Q1	Q2	Q3	Q4	Q5	Q6	Q7

Question 1: Programming for Mobile Devices

(X Marks)

Discuss t devices o	the two funda depending on	mental app the capabil	roaches pre lities of a de	esented in the evice.	he lecture to	develop soft	ware for mol
	y component						

Question 2: User Interfaces

(X Marks)

• Explain in what way a smartphone differs from a desktop PC with regard to user interfaces.

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• What is the purpose of Attributes for Text Fields using Android? Give some examples and discuss their purpose.



od user int	rfaces and explain why they are useful for	mobile devices.
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Question 3: Mobile Games

(X Marks)

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2.	When is the flooding protocol preferred for mobile networks?	
Que	stion 5: Localization and Location Privacy	(X Marks
1.	Explain and discuss a non-range based localisation method.	

services that safeguard location privacy using obfuscation.	
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stion 6: Wireless Networks & RFID Compare Bluetooth to ZigBee. What do they have in common, provide numerical details (for example, for their range and ban qualitative discussion, Furthermore, you do not need to mention a	how do they differ? Dadwidth). Instead, focus
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Question 7: Data Collection from a Network

(X Marks)

database server. For this reason, data stream management systems or (DSMSs) could be use. List at least three key differences between a DSMS and a DBMS.
CVVVDIC
could be prefered. Among several approaches, a well-known approach is to create a routing
could be prefered. Among several approaches, a well-known approach is to create a routing tree to collect the data and accommodate in-network processing on this tree. State the main
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For some data collection tasks, e.g., finding max traffic flow in a region, in-network processing could be prefered. Among several approaches, a well-known approach is to create a routing tree to collect the data and accommodate in-network processing on this tree. State the main disadvantage of this approach and briefly discuss a key alternative to using a simple tree.
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Overflow Answers

The boxes here are for emergency use only. If you do need to use this page, indicate **CLEARLY** in your previous answer that you have continued onto this page. In addition, **CLEARLY** indicate which question you are answering. Without such an indication, it is possible that this part of your answer will be overlooked.

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