Student Number:	

## The University of Melbourne

## **Semester 2 Sample Assessment 2015**

Department of Computing and Information Systems
COMP90018 Mobile Computing Systems Programming

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

This paper has 10 pages including this cover page.

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

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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

# **Question 1: Programming for Mobile Devices** (X Marks) • Discuss the two fundamental approaches presented in the lecture to develop software for mobile devices depending on the capabilities of a device. • Assume that a wireless thin client has only a browser but no other software installed. Detail the necessary components to enable thin clients to access and store information via the Internet. (X Marks)

## **Question 2: User Interfaces**

(X Marks)

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user interfaces a	nd explain why	they are useful for	or mobile devices.	(X Ma

Question 3: Mobile Games	(X Marks
<ol> <li>In the class we divided mobile games into two categor What is the other category? Explain both categories a gory.</li> </ol>	
Question 4: Ad-hoc Routing Protocols	(X Marks
1. Compare the two classes of topological routing protocity.	cols for ad-hoc routing in terms of mobil (X Marks

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## **Question 5: Localization and Location Privacy** (X Marks) 1. Explain and discuss a non-range based localisation method. (X Marks) 2. Discuss whether or not non-range based positioning techniques can be used for location-based services that safeguard location privacy using obfuscation. (X Marks)

## **Question 6: Wireless Networks & RFID**

(X Marks)

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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.