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Family Name					
Given Name/s					
Student Number					
Teaching Period	Semester 2, 2018				

HIT238 – The Mobile Paradigm	DURATION	
	Reading Time:	10 minutes
	Writing Time:	180 minutes
INSTRUCTIONS TO CANDIDATES		
The examination has 3 sections		
Section A:	Short Answer: Answer ALL 3 questions	
Suggested Time:	75 minutes (21 marks)	
Section B:	Short Answer Questions: Answer ALL 3 questions	
Suggested Time:	40 minutes (11 marks)	
Section C:	Short Answer: Answer 3 questions	
Suggested Time:	65 minutes (18 marks)	
<p>Note that questions ARE NOT of equal value. Read ALL questions carefully. Do not commence writing until instructed to do so.</p>		
EXAM CONDITIONS		
<u>You may begin writing from the commencement of the examination session.</u> The reading time indicated above is provided as a guide only.		
This is a CLOSED BOOK examination		
No calculators are permitted		
No handwritten notes are permitted		
No dictionaries are permitted		
ADDITIONAL AUTHORISED MATERIALS	EXAMINATION MATERIALS TO BE SUPPLIED	
No additional printed material is permitted	1 x 20 Page Book	

**THIS EXAMINATION IS PRINTED
DOUBLE-SIDED.**

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LEFT BLANK.**

Section A: Understanding different devices
Short Answer Questions

Total No of Marks for this Section: 21

This section should be answered on the Answer Sheet provided.

Marks for each question are indicated. Suggested time allocation for Section A: 75 mins

Question 1

(5 Marks)

List five differences between a mobile app and a desktop app.

Question 2

(5 + 5 = 10 Marks)

- a. List three advantages and two disadvantages of a mobile web app?
- b. List three advantages and two disadvantages of a native mobile app?

Question 3

(6 Marks)

List three differences between Android and IOS apps.

Section B: Designing mobile applications
Short Answer Questions

Total No of Marks for this Section: 11

This section should be answered on the Answer Sheet provided.

Marks for each question are indicated. Suggested time allocation for Section A: 40 mins

Question 4

(6 Marks)

Your client is concerned that mobile usage is low and has asked you to conduct user research to better understand what the users want from the mobile experience. Write the objectives of your user research.

Question 5

(2 + 2 = 4 Marks)

Your client owns a doctor's clinic and is concerned about elderly patients forgetting their appointments. They want an application to help remind them when an appointment is coming up. Can you write two users stories for the application?

Question 6

(1 Mark)

What is the simplest definition of an MVP?

Section C: Mobile applications technical knowledge
Short Answer Questions

Total No of Marks for this Section: 18

This section should be answered on the Answer Sheet provided.

Marks for each question are indicated. Suggested time allocation for Section A: 65 mins

Question 7

(2 + 2 + 2 + 2 + 2 + 2 = 12 Marks)

- What is JSON?
- What is a Promise in Javascript?
- What problems might you have if making a fetch request to a different domain?
- What file is required to install a mobile web application?
- What is the difference between LocalStorage and IndexedDB?
- What does a service worker allow you to do?

Question 8

(2 Marks)

List two advantages of using SQLite over IndexedDB or LocalStorage in a Cordova application.

Question 9

(4 Marks)

What is the difference between a Cordova application and React Native?

Answer in two or three sentences – do not just use dot points.