

National College of Ireland

MSc in Mobile Technologies - Full-time - Year 1 - MSCMTD

Postgraduate Diploma in Mobile Technologies - Part-time - Year 1 - PGDMT

Autumn/ Repeat Examinations - 2015/16

Saturday 13th August 2016 2.00pm – 4.00pm

Mobile Architecture and Security

Prof. John Murphy Mr. Mikhail Timofeev

Answer **ALL** questions

Duration of exam: 2 hrs **Attachments:** None

1.		
(i)	What is known as <i>Device Defragmentation (DD)</i> issue in mobile application solutions this can be tackled? How can <i>WURFL</i> be used in order to minimise impacts of <i>DD</i> ?	
(ii)	What is <i>Threat Modeling</i> ? Give an example of a threat model and list some of the controls fo each type of threat with respect to a hybrid mobile application.	
2.	odon typo or amout war roopoot to a myona moono approation.	[10 marks]
(i)	Give a detailed overview of JavaScript Security Model and explain what Same-Origin this context.	<i>Policy</i> is in
	this context.	[15 marks]
(ii)	Give a brief overview of the following <i>Mobile Design Patterns</i> : a) The Logon-and-Forget Pattern b) The A-la-Carte-Menu Pattern c) The As-Soon-as-Possible Pattern d) The Do-as-Romans-Do Pattern	
0	e) The Babel-tower Pattern	[10 marks]
3. (i)	Define Three Mobile Axioms of a mobile application strategy.	[10 marks]
(ii)	Compare and contrast Business-to-Consumer (B2C) and Business-to-Business (B2C) attraction. Explain what MEAD is within the context of B2D.	В)
	strategies. Explain what <i>MEAP</i> is within the context of <i>B2B</i> .	[10 marks]
(iii)	Briefly describe the <i>N-tier Architecture</i> and it's commponents.	[5 marks]
4. (i)	Give examples of <i>Injection Attacks</i> and give one example of how it can be carried ou	ıt
(1)	Give examples of injustion rittable and give one example of new it can be carried of	[10 marks]
(ii)	What is an <i>Application Life-Cylce</i> ? What are the possible states that any mobile application caswing between?	
	oming both con:	[5 marks]

List the main factors influcing the choice of *Deployment Options* for mobile applications. [10 marks]

(iii)