REQUIREMENTS ANALYSIS AND DESIGN (PHÂN TÍCH VÀ THIẾT KẾ YÊU CẦU) 502050

**Chapter 10
Course Wrap Up**

Outline

- SDLC
- SDLC Phases
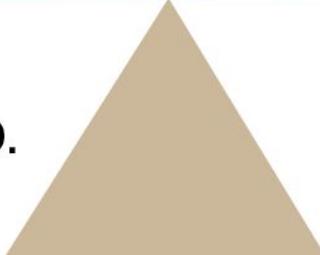- System Development Disciplines
- Exam Format

Predictive and Adaptive SDLC

THE APPROPRIATE SDLC VARIES DEPENDING ON THE PROJECT

PREDICTIVE SDLC	ADAPTIVE SDLC

REQUIREMENTS WELL UNDERSTOOD AND WELL DEFINED. LOW TECHNICAL RISK.

REQUIREMENTS AND NEEDS UNCERTAIN. HIGH TECHNICAL RISK.

SDLC Phases

We can generalize SDLC into 5 different phases:

1. Initiation
2. Discovery
3. Construction
4. Final Verification and Validation
5. Closeout

System Development Disciplines

- Example

Final Verification and Validation Phase

Test types and detected defects

Test Type	Defect(s) Detected
Unit testing	Software component that doesn't correctly perform its function when tested in isolation. Example: A component for calculating sales tax that consistently computes sales tax incorrectly for one or more localities.
Integration testing	Software component that doesn't correctly perform its function or fails to meet a nonfunctional requirement when operated with other components. Example: An order retrieval function that displays a result in 2 seconds when tested with a dummy database but requires 30 seconds when using a live database.
Usability testing	Software that works but fails to satisfy one or more user requirements related to function or ease of use. Example: A user-interface component that forces a user to follow a needlessly complex procedure to complete a common and simple task.
User acceptance testing	All defect types

Exam Format

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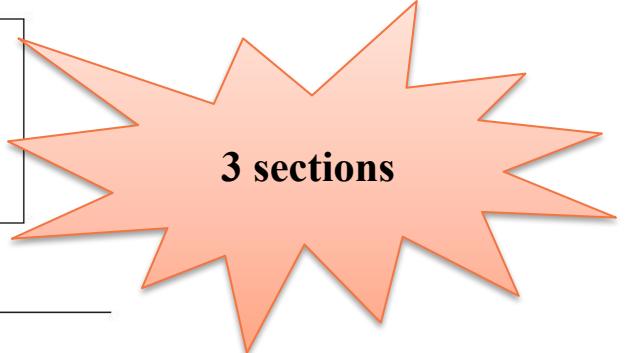
SCHOOL OF COMPUTING

EXAMINATION FOR
Semester 1 AY2013/2014

IS2102 – REQUIREMENTS ANALYSIS AND DESIGN

Nov/Dec 2013   Time Allowed: 2 Hours

3 sections

INSTRUCTIONS TO CANDIDATES

1. This examination paper consists of Forty Five (45) questions (within THREE (3) sections) and comprises EIGHTEEN (18) printed pages, including this page.

2. Section A consists of 40 multiple-choice questions worth 20 marks. Answer ALL questions by shading your answers on the OCR form provided. Please use a 2B or darker pencil, and shade your answers completely.

3. Answer the questions from Section B and Section C in the spaces provided.

4. This is an Open Book examination. You are allowed to refer to any printed and/or written materials. No electronically stored materials or devices are permitted.

5. Please write and shade your matriculation number clearly on the OCR form provided.

6. Please write your Matriculation Number below.

MATRICULATION NO: _____

This portion is for examiner's use only

Section	Marks	Remarks
A (MCQ 20 Marks)	/20	
B (SQ 20 Marks)	/10	
	/ 4	
	/ 6	
C (Case Study 20 Marks)	/10	
	/10	
Total (60 Marks)		

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