

## UNIVERSITI TUN HUSSEIN ONN MALAYSIA

## FINAL EXAMINATION SEMESTER II SESSION 2011/2012

COURSE NAME	:	REQUIREMENTS ANALYSIS AND SOFTWARE SPECIFICATION
COURSE CODE	:	BIT 3143/ BIT 31403
PROGRAMME	:	BACHELOR OF INFORMATION TECHNOLOGY
EXAMINATION DATE	:	JUNE 2012
DURATION	:	2 HOURS AND 30 MINUTES
INSTRUCTION	:	ANSWER ALL QUESTIONS.

THIS QUESTION PAPER CONTAINS FOUR (4) PAGES

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## SECTION A

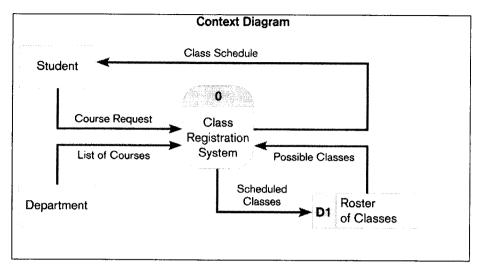
Instruction: Answer ALL questions.

Q1 (a	(a)	Describe the meaning of an object-oriented system should be designed for integration.		
		(4 marks)		
relates to compare the compare	Explain how a Business Process Re-Engineering (BPR) business process relates to the notion of workflow.			
	(6 marks)			
	List <b>TWO (2)</b> differences between Rational Unified Process (RUP) and Vtrame Programming (VP)			
		eXtreme Programming (XP). (4 marks)		
(JAD) (b) Discus entitie (c) Comp	(a)	Give <b>TWO</b> (2) advantages of brainstorming and Joint Application Design (JAD).		
	(4 marks)			
	Discuss how actors used in a business use case diagram different from external entities in a context diagram.			
	(6 marks)			
	Compare the object-oriented analysis and design models with the structured analysis and design model.			
		(6 marks)		
Q3	(a)	Develop an activity diagram for a typical customer ordering process for a stock-to-order business such as a catalog or an Internet sales company. (10 marks)		
	(b)	Explain the activity diagram based on your answer for Q3 (a). $(5 \text{ morks})$		

(5 marks)

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Q4 (a) Draw a use case diagram based on the context diagram in Figure Q4 for a university class registration.





(10 marks)

(b) Explain the use case diagram based on your answer for Q4 (a).

(5 marks)

## **SECTION B**

Instruction: Answer ALL questions.

Q5 Consider the following scenario:

Musixscore.com is an online service providing sheet music to customers. On the "browse music" Web page, customers select a genre of music from a dropdown list. The Web page uses Ajax to obtain a list of performers, musicians, or groups that match the genre, which is formatted as a drop-down list. When a selection is made from the performers drop-down list, the Web page uses Ajax to display a third drop-down list displaying all of the Compact Discs (CD) or other works of the performer. When a CD is selected, the Web page uses Ajax to obtain all the songs on the CD in a fourth drop-down list. The viewer may make multiple selections. When the Add To Shopping Cart image is clicked, the songs are added to the shopping cart. The viewer may change any of the drop-down lists to select additional sheet music, and the process is repeated. (Kendall & Kendall, 2011)

(a) Write a use case description for the Browse Music Score use case to represent the activity.

(10 marks)

(b) Develop a sequence diagram using presentation, control, and entity classes for the Musixscore Web page.

(10 marks)

(c) Based on answer Q5 (b), list of the messages, names and the parameters, along with the data types, that would be passed to the classes and the values that are included with the return message.

(10 marks)

(d) Create a class diagram for the entity classes used in the sequence diagram. (10 marks)