

Course Title: Business system analysis and design
Date: 11 / 01/ 2014
No. of Questions: 3 Questions
Time: 2 hours
Using Calculator (NO)

University of Palestine



Final Exam
1st semester 2013/2014
Total Grade: 50

Instructor Name: Eng. Eman Alajrami
Student No.: _____
Student Name: _____
College Name: IT
Dep. / Specialist: MIS
Using Dictionary (No)

First Question **No. of Branches (2)** **10 Marks**

(A) Put (√) or (X) for each of the following statements: **5 marks**

- 1) If a user only receives reports from the system, that user is not an actor ()
- 2) A primary actor is an actor that the system initiates an interaction with, once the use case has already started ()
- 3) In the alternate flow there is often no convergence point ()
- 4) In DFD Data flows to Entities must come from Processes ()
- 5) State diagram is an object oriented model ()

(B) Define the following: **(5 marks)**

- 1. Secondary actor :
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- 2. Exception flow:
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- 3. Use case package:
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- 4. Decision Tree :
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- 5. Role map:
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Second Question **No. of Branches (4)** **20 Marks**

- 1. How can you model Actors with totally Overlapping Roles? And how can you model Actors with Partially Overlapping Roles?
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2. When Are Decision Tables Useful?

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3. What Criteria Are Used to Group System Use Cases into Packages?

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4. Write a basic flow , alternate flow and an exception flow for the process withdraw from ATM.

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Third Question

No. of Branches (4)

20 Marks

1. You are developing the requirements for an online shopping system. To place an order, a user connects to the system, searches to find items to purchase, selects one or more items, and supplies credit card information to pay for them. Draw a use case diagram.

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2. Draw a context diagram and a level 1 data flow diagram for student registration system. You should develop the processes.

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3. Imagine you are developing an auction system for private persons. The system includes:

- User account management
- Advertise design system
- Search for different articles to buy
- Auction management system
- Bidding system
- Fairly trusted payment system

Draw a UML class diagram with at least five classes, where all classes have attributes and operations. Illustrate the relations. (5 Marks)

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4. Construct a decision table and decision tree for exam excuse system with three conditions as follow:

Student provided excuse (Yes, No)

Student provided evidence (Yes, No)

Excuse type (Death, Health, Travel)

All cases that provided excuse from the types given with evidence are accepted, otherwise rejected. (select a test case and describe it)

Good Luck