



First Question	No. of Branches (1)	10 Marks
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(A)

(10)

Put (√) or (X) for each of the following statements:

- 1) The waterfall model is only appropriate when the requirements are well-understood ()
- 2) The activities of design and implementation are closely related and may be inter-leaved ()
- 3) Deliverables are milestones but milestones need not be deliverables. ()
- 4) Requirement completeness means that there are no requirements conflicts ()
- 5) It is always possible to produce a complete and consistent requirements document. ()
- 6) Project planning is probably the less time-consuming project management activity ()
- 7) Design should state what the system should do and the requirements should describe how it does this ()
- 8) Mutable requirements are requirements which change during development or when the system is in use ()
- 9) State machine Diagrams show the system's responses so are often used for modeling real-time systems ()
- 10) Aggregation models describe how object are related to each other ()

Second Question	No. of Branches (2)	20 Marks
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A. Define the following:

(5)

1. Risk management

2. System Requirements:

3. Volatile requirements:

بكالوريوس

Course No: ITGD3103

Course Title: Software

Engineering

Date: 10/ 01 / 2011

No. of Questions: 3 Questions

Time: 2 hours

Using Calculator (No)

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University of Palestine



Final Exam

1st semester 2010/2011

Total Grade: 50

Instructor Name: Mrs. Eman

Alajrami

Student No.: _____

Student Name: _____

College Name: _____

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Using Dictionary (No)

4. Traceability:

5. Viewpoints:

(B)

(15)

Answer all of the following questions :

1. Why is it impossible to completely separate system requirements and design?

2. Explain briefly the three User Interface Golden Rules?

3. Why Requirements error costs very high?

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Using Dictionary (No)

4. What are the Review checks that should be done during requirement review?

5. What are the problems with NL (Natural Language)?

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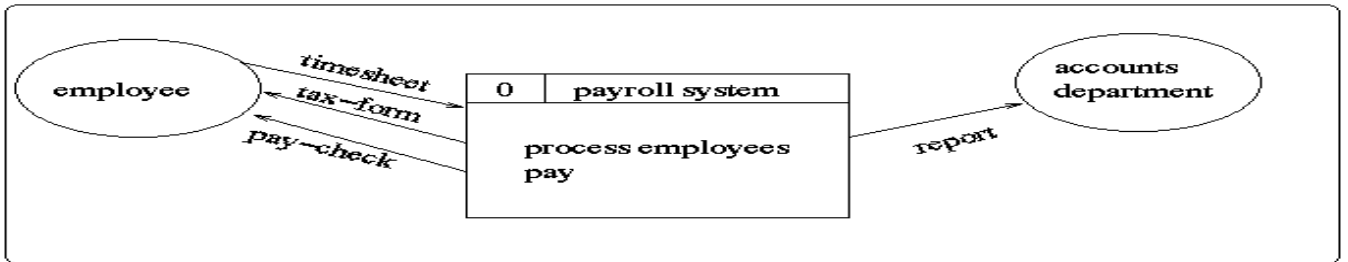
Using Dictionary (No)

Third Question

No. of Branches (2)

20 Marks

1. A system analyst has modeled the requirements, of a Payroll System, in a functional view):



Transform this requirement model to a (Use Case Diagram)

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Using Dictionary (No)

2. Draw a Data Flow Diagram (both Context Diagram and level 1 diagram) for the following system:

Burger Food Information System

1. The system takes customer order
2. sends order to the kitchen
3. monitors goods sold
4. monitors inventory
5. generates reports for management

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Using Calculator (No)

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Using Dictionary (No)

3. Draw an activity diagram for Eat system as follows:

- The system will start with choosing dinner
- Then it will choose to "eat in" or "eat out"
- If "eat in", it can be started with setting the table or with finding the recipe
- After finding the recipe, the ingredients will be gathered, then cooked
- The cooked dinner will be put on the table and start eat.
- If "eat out" then go to restaurant then eat.

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Using Calculator (No)

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Using Dictionary (No)

4. A Software production organization wants to produce a Text Processing Software (TPS), containing animated images and having the following functional requirements:

Functional Requirements:

CloseDoc, InsertText, LeftImage, PastText, RotateImage, PrintDoc, FormatText, ToRightImage, ToTopImage, CopyText, OpenDoc, DeleteText, DownImage.

Using the Notations studied in System Engineering Models write the following models (for this TPS):

1. A Class Diagram model (explain the associations)

Good Luck