Student Name-Surname:
Number:
Department:

✠ Answer Sheet ✠

1) [10p] Many large companies found that many problems are caused because of the lack of system analysts to understand .....*the business value* ..... *(organizational)*

2) [10p] What are the 4 main phases of the System Development Life Cycle (SDLC), and what are the products of these phases? Write in order.

Planning → Project Plan
Analysis → System Proposal
Design → System Specs.
Implementation → System & maintenance Plan

3) [10p] In analysis phase, the Question keywords ...*when?, what?, where?*... are investigated.

4) [10p] The main difference between a system prototype and a throw-away prototype is

throw away prototype is at design level; system prototype includes a limited set of requirements of the system.

5) [5p] A message in an object-oriented design can be interpreted differently by different classes of objects, which is called

a) Encapsulation
(b) Polymorphism
c) Data hiding
d) Object instantiation
e) Reusability

6) [10p] Three main types of diagrams in UML design are

- *functional* ,
- *structural* , and
- *behavioral*

7) [15p] Explain briefly the follow-up actions after interviews and questionnaires?

Extract major use-cases, incrementally create use-case description documents & use case diagrams.

8) [15p] Assume you are interviewing a Nurse for a health information system, in each of the following, give an example of

a) Open-ended Question
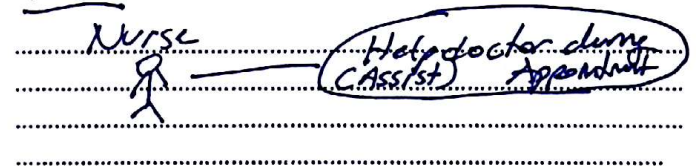*Why do you use a health information system?*

b) Close-ended Question
How many patients are you examined in a day?

c) Probing Question
Can you give an example for an improvement in the existing system?

9) [15p] What would be a simple flow of execution steps based on the information that you have gathered in Question 9?

Nurse ——— Help doctor during Appointment (Assist)

1. *prepare patient for the appointment*
2. *call doctor when the patient is ready*
3. *wait for requests of the doctor*
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