# ICT Service Management Example Questions

## Question 1

(Evaluation: 3 points)

Consider the following list of software management activities. Indicate for each activity what CMM level is required to conduct the activity and motivate shortly your answers.

- a. Basic cost tracking
- b. Business requirements tracking (checking the realisation of business requirements in the final software)
- c. Customize the meta-model of the repository for the software tools

## Question 2

(Evaluation: 3 points)

Consider the following list of deltas for a software product, called ZZM. The baseline product was produced with the following makefile

ZZM : a.o b.o

linkit a.o b.o ZZM

a.o : a.c incl.h

compile a.d

b.o : b.c

compile b.c

on an IBM AIX platform.

Delta1: Correct some defects in a.c

Delta2: Changes to incl.h and additional functionality in b.c

Delta3: Create a WINDOWS/NT variant of ZZM, using the same incl.h file

Delta4: Correct some defects in b.c for the WINDOWS/NT variant

Develop a clear description of the combined product/version space. Motivate your choice for a product first versus version first or intertwined representation.

#### Question 3

(Evaluation: 4 points)

Steve Meticolous was the new software product manager at ACME Software Inc. He desired to monitor the productivity of the different software engineers and developed the following procedure.

- a. Count the modules that are developed by each software engineer.
- b. Give the modules a "label" L(ight), M(edium) and H(eavy) according to the number of procedures and functions in the module. Light modules have less than 15 procedures/functions, while Heave modules have more than 60 procedures/functions.
- c. Count the Light modules as 1, the Medium as 3 and the Heavy modules as 7, and add the result to get the "weighted module count".
- d. The productivity of the software engineers is measured in personhours per weighted module count.
- 1. Do you agree with this procedure? Formulate your remarks.
- 2. Is the statement "Engineer X is twice as productive as engineer Y" a meaningful statement?

#### **Ouestion 4**

(Evaluation: 3 points)

"The higher the CMM maturity level, the closer an organization will meet the six-sigmarequirement!"

Do you agree with this statement ? If so, provide some evidence why this statement would hold. If not, explain why.