**Project Management Exam – Feb 1st, 2018**

## Name:

# Monitoring (6)

Take the following project:

|  |  |  |  |
| --- | --- | --- | --- |
| **Task** | **Duration  (month)** | **Monthly scheduled cost (k€/month)** | **Progress at the end of the 5th month** |
| a | 2 | 10 | Completed |
| b | 1 | 20 | Completed |
| c | 4 | 20 | 50% |
| d | 3 | 30 | To be started |
| e | 2 | 10 | To be started |

Given a 100k€ total actual value at the end of the fifth month, please compute the time and cost estimates at completion and suggest corrective actions, if any.

# Contracting (6 points)

A multinational e-commerce company is willing to develop a new web marketing sw tool to integrate with the available customer relationship management system.

The new integrated tool will be designed and implemented by a sole contractor. No complete preliminary definition of the software requirements can be made and these will be defined as the project activities will unfold. Also, quick deployment and business continuity must be assured.

Please propose the most appropriate payment scheme to reimburse the contractor and suggest the best project management methodology to develop the project. Prive a short justification.

# Scheduling (6 points)

There is a project of planting 6 identical trees in a botanical garden. Planting a tree requires 4 steps of work (each done by a different worker):

* + digging: 10 mins
  + prepare the hole for the tree with special nutrients: 5 mins
  + placing the tree into the hole: 5 mins
  + tidy up the surroundings of the tree: 15 mins

Plot a Line-of-Balance chart and determine the total duration of the project if:

1. Follower worker can start working on a given unit of work immediately after the predecessor worker finished
2. No idle time is allowed.