Opiskelijan nimi / Student name:



Opiskelijanumero / Student number:

YLIOPISTOTENTTI - UNIVERSITY EXAM

V	
Opettaja täyttää / Lecturer fills in:	
Opintojakson koodi and nimi / The code and the name of the course:	
Koodi / Code 721194S	
Tentin nimi / Name Advanced Cost Accounting	
Tiedekunta / Faculty: OBS	
Tentin pvm / Date of exam: 26.5.2016	Tentin kesto tunteina / Exam in hours: 4
Tentin nro / No. of the exam:	Opintopistemäärä / Credit units: 6
2 (1st retake)	
remade on (c) / Examiner (c)	Sisäinen postios. / Internal address:
	60уККК
Sallitut apuvälineet / The devices allowed in the exam:	
Nelilaskin / ⊠ Funktiolask	
Standard calculator Scientific calculator	Programmable calculator
☐ Muu materiaali, tarkennettu alla / Other material, specified below:	
The sale of the sa	answer the questions:
Tenttiin vastaaminen / Please	
Suomeksi / in Finnish	
Kysymyspaperi on palautettava / Paper with	exam questions must be returned:
☐ Kyllä / Yes	

The test has four questions and a maximum of 24 points. Please use <u>complete sentences</u> in answering the essay questions (i.e. no bullets, lists etc.).

Kysymyksiin saa vastata suomeksi mutta ammattisanastoa tulee tällöin käyttää tarkasti.

- 1) Relating to the theory of cost allocation
- a) Explain how cost allocations act as a tax system
- b) Explain concept of economic externalities is relates to the tax system issue. What would such externalities typically be? How will organizations act differently in the presence of a costing system than without it?
- c) Illustrate (using the before mentioned concepts) and give examples of a case where i.no cost allocation is preferable to an arbitrary allocation ii.an arbitrary allocation is preferable to no allocation.
- 2) Activity-based costing (ABC) is a costing system that was developed in the 1980s as a result of an increasing awareness in businesses of the deficiencies of traditional approaches to production overhead absorption.
 - a) Describe the main deficiencies in the traditional product costing system which ABC seeks to correct.
 - b) Identify and comment upon a significant advantage and a significant disadvantage associated with the typical implementation of an ABC system
 - c) A tree nursery is considering a change of product mix in its inventory. The manager wants to estimate the product cost of different types of trees. There are no activities that lead to direct costs. Indirect costs are identified and estimated for the following activities: watering, reporting and administration. Total estimated annual costs for each activity, the cost driver for each activity and the expected annual usage of each cost driver are as follows:

Activity /Estimated costs /Cost driver /Estimated usage of cost driver

Watering /50.000 /Number of trees /500.000 Repotting /100.000 /Number of repots /200.000 Administration /75.000 Number of different types of trees/ 500

What are the estimated costs of 100 royal oaks, each of which requires one repotting each year?

- 3) Relating to absorption costing systems
 - a) A company uses a flexible budget to forecast annual plant-wide overhead, which is then allocated to jobs, based on machine hours. The annual overhead budget is forecasted to be €6.000.000 of fixed costs plus €120 per machine hour. The expected number of machine hours for the year is 20.000. The estimated application rate includes both fixed and variable overhead costs. At the end of the year, 21.000 machine hours were used and actual overhead incurred was €9.140.000

- i. Calculate the application rate set at the beginning of the year.
- ii. Calculate the amount of over- or underabsorbed overhead for the year.
- The company policy is to write off any over- or underabsorbed overhead to the cost of goods sold account. Will net profit rise or fall this year when the over- or underabsorbed overhead is written off to cost of goods sold? Please explain why.
- b) Explain the following briefly and concisely
 - i. Expected volume and normal volume
 - ii. Why are prospective overhead rates used to assign overhead costs to jobs?
 - iii. Why are input measures used in calculating prospective overhead rates?
- **4)** How does the concept of death spiral relate to cost accounting according to Zimmerman? Discuss the different situations in which the phenomenon of death spiral can occur. What is the source of death spiral? What kind of solutions are there to the death spiral?

