



YLIOPISTOTENTTI - UNIVERSITY EXAM

Opiskelijan nimi / Student name:	Opiskelijanumero / Student number:
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The test has four questions and a maximum of 24 points. Please use complete sentences in answering the essay questions (i.e. no bullets, lists etc.).

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:	
Tentin pvm / Date of exam: September 8 th , 2016	Tentin kesto tunteina / Exam in hours: 3
Tentin nro / No. of the exam: 3 (2 nd retake)	Opintopistemäärä / Credit units: 6
Tentaattori(t) / Examiner(s): Janne Järvinen	Sisäinen postios. / Internal address: 6OyKKK
Sallitut apuvälineet / The devices allowed in the exam: <input checked="" type="checkbox"/> Nelilaskin / Standard calculator / <input checked="" type="checkbox"/> Funktiolaskin / Scientific calculator / <input type="checkbox"/> Ohjelmoitava laskin / Programmable calculator <input type="checkbox"/> Muu materiaali, tarkennettu alla / Other material, specified below:	
Tenttiin vastaaminen / Please answer the questions: <input checked="" type="checkbox"/> Suomeksi / in Finnish <input checked="" type="checkbox"/> Englanniksi / in English	
Kysymyspaperi on palautettava / Paper with exam questions must be returned: <input type="checkbox"/> Kyllä / Yes <input checked="" type="checkbox"/> Ei / No	

. 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)** Relating to Activity-based costing (ABC) and its extension, time-driven activity-based costing (TDABC), please illustrate
- a) the flow of calculation in these two methods (in a simple figure or graph)
 - b) how the two methods differ in
 - i) cost drivers the two methods typically employ
 - ii) how activities are defined in the two methods
 - iii) how capacity is defined and excess capacity understood in the two methods
 - c) ideal circumstances in which the methods are useful (and in what kind of circumstances TDABC was proposed to be superior to the conventional ABC)

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.
 - iii. 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?

