

YLIOPISTOTENTTI - UNIVERSITY EXAM

Opiskelijan nimi / Student name:	Opiskelijanumero / Student number:					
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Opettaja täyttää / Lecturer fills in:						
Opintojakson koodi and nimi / The code and the nar	ne of the course:					
Koodi / Code 721134A						
-	nont Systams					
Tentin nimi / Exam name Cost Management Systems						
Tiedekunta / Faculty: OyKKK						
Tentin pvm / Date of exam: 27.2.2019	Tentin kesto tunteina / Exam in hours: 3 h					
Tentaattori(t) / Examiner(s): Hannele Kantola, Erkki Lassila	Opintopistemäärä / Credit units: 6					
	Sisäinen postios. / Internal address:					
	6 ОУККК					
Sallitut apuvälineet / The devices allowed in the exam:						
☑ Funktiolaskin / ☐ Ohjelmoitava laskin / ☐ Ohjelmoitava / ☐ O						
Scientific calculator Programmable calcu	ulator					
☐ Muu materiaali, tarkennettu alla / Other material, specified below:						
At the second se						
Tenttiin vastaaminen / Please answer the questions:						
☑ Suomeksi / in Finnish						
Suomenkielisessä tutkinto-ohjelmassa olevalla opiskelijalla on oikeus käyttää arvioitavassa opintosuorituksessa suomen kieltä, vaikka opintojakson opetuskieli olisi englanti. Tämä ei koske vieraan kielen opintoja. (Kts. <u>Koulutuksen johtosääntö</u> 18 §)						
In a Finnish degree programme a student has a right t attainment, even though the language of instruction i when the language of instruction is other than Finnish	s English, (excluding language studies) even					
Kysymyspaperi on palautettava / Paper with exam q ⊠ Kyllä / Yes □ Ei / No	uestions must be returned:					

This test has three questions and a maximum of 90 points. Please use complete sentences when answering the essay questions (no bullets, lists etc.)! Do not write on this exam paper, but provide your answers in the answer sheet.

- 1) Explain the concept of Target costing and strengths of it. (Kaplan and Atkinson) (30 p.)
- 2) Explain the Cost of quality (COQ) model in management accounting. Also, comment on the potential usability of COQ -reporting for cost management purposes. (Brown and Tiez) (30 p.)
- 3) Break-even chart with increases in fixed costs

A local authority operates a holiday home which is let (rented) to visiting parties of children in care. The holiday home operates for 30 weeks each year. The children, who come to the holiday home, are accompanied by their own house mothers who supervise them throughout their holiday. From eight to fourteen guests are accepted on terms of £100 per person per week. No differential charges exist for adults and children.

Weekly costs incurred by the authority are:	£ per guest
Food	25
Electricity for heating and cooking	3
Domestic (laundry, cleaning etc.) expenses	5
Use of minibus	10

Seasonal staff supervise and carry out the necessary duties at the home at a cost of £11 000 for the 30-week period. This provides staffing sufficient for eight to ten guests per week but if eleven or more guests are to be accommodated, additional staff at a total cost of £200 per week are engaged for the whole of the 30-week period.

Rent, including rates for the property, is £4000 per annum and the garden of the home is maintained by the council's recreation department which charges a nominal fee of £1000 per annum.

You are required to:

- a) Formulate the equations for the:
 - i. income per annum = ...
 - ii. variable costs per annum = ...
 - iii. total costs per annum at 14 guests = ...

NOTE! Equations (i) and (ii) you can use, x =the number of guests (5p)

b) Calculate and fill in the table below the appropriate figures and give a short comment on the break-even point(s) (15p)

Holiday resort cost and income statement

	The state of the s				
Guests in	Income	Variable	Contribution	Fixed	Surplus
4	p.a.	costs		costs	(deficit)
residence	(£)	(£)	(£)	(£)	(£)
8					
9					
10					
3					
etc.					

c) Draw a break-even chart to illustrate your answer to (b) above and clearly identify (e.g. pointing by an arrow) the break-even point(s) and profit areas. (10p)

NOTE! You need total costs for break-even chart. Use x-axis to indicate the number of guests.

