

### **EXAMINATION QUESTION PAPER - Written examination**

## EXC 21221

# Strategic Management Accounting

Department of	of Accounting,	Auditing and	Business	Analytics
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Answer sheets: Lines

Examination support BI-approved exam calculator

materials permitted: Simple calculator

Bilingual dictionary

Re-sit Ordinary

#### **Question 1 (10%)**

Radioactive AS imports DAB-radios from a manufacturer in Taiwan. The company is now preparing budgets for first half of 2018. We have the following information from the forecasts for second half of 2017:

Sales volume	8 000 radios
Average sales price	780,00 kr
Costs of goods sold	kr 2 800 000
Salaries and other payable personnel costs (*)	kr 1 600 000
Other payable operating costs (*)	kr 800 000
Depreciation (*)	kr 100 000

(\*) Costs that can be regarded as fixed or step costs within the planning horizon.

The demand for such radios are expected to fall in the first half of 2018, but the market is quite price sensitive, but the decrease in sales volume is not expected to be dramatic if the company reduces the sales price a little.

Radioactive AS faces two alternative scenarios for first half of 2018:

- They can keep the sales prices as in second half of 2017. The company expects then a reduction in sales volume of 25%, compared with second half of 2017. As a consequence of the reduced activity level will both salaries and other payable personnel costs as well as other payable operating costs be reduced by 20% each.
- They can reduce the sales price by 10%. The company expects then a reduction in sales volume of only 5%, and a corresponding drop of variable costs.

The purchase price per unit is expected to be the same as for the second half of 2017 in both of the two scenarios.

What do you advise the company to do? Document your advice with the necessary calculations.

#### **Question 2 (10%)**

We can gather the following information from the same company's balance sheet per 1<sup>st</sup> July 2017 and expected balance per 31<sup>st</sup> December 2017:

	01.07.2017	31.12.2017
Company cars	420 000	320 000
Inventory	220 000	220 000
Accounts Receivable	840 000	1 040 000
Other short-term claims	40 000	70 000
Bank deposit	358 000	884 000
Total assets	1 878 000	2 534 000
Share capital	100 000	100 000
Retained earnings	302 000	1 242 000
Long-term debts	404 000	204 000
Accounts Payable	356 000	600 000

Other short-term liabilities	716 000	388 000	
Total equity and debts	1 878 000	2 534 000	

Make a specified presentation that shows the connection between:

Opening balance bank deposits

- + Expected incoming payments in the second half of 2017
- Expected outgoing payments in the second half of 2017
- = Closing balance bank deposits

You may disregard the effect of Value Added tax (VAT) on the company's cash flow.

#### Oppgave 3 (10%)

You may assume that the figures above are based on the company's customers paying on average after 30 days and that the company's supplier of radios is also paid on average after 30 days. Assume further that the sales and costs of sales is distributed evenly and that there are only 180 days in the second half of 2017.

- How would the net cash flow be influenced If customers paid after 20 days (instead of 30) and the supplier of radios was also paid after 20 days (instead of 30)?
- What would the balance of bank deposits, Accounts Receivable and Account Payable be per 31<sup>st</sup>
  December 2017 if the above changes in credit periods took place?

You may still disregard the effect of Value Added Tax (VAT).

#### Question 4 (5%)

Company X had a bank deposit balance of 1 312 000 1st January 2017. In the beginning of March 2017 this was this reduced to 722 000. In March 2017 the company paid dividend to its shareholders, amounting to 10% of the nominal value of the share capital of 1 200 000. In addition, the company purchased the same month a new delivery van for 346 000.

What was the cashflow from Company X's operating activities in the first quarter of 2017?

#### **Question 5 (15%)**

Explain in your own words how the following concepts (listed here in a random order) *relate to each other* in a balanced scorecard model:

- Key performance indicators
- Scorecard
- Targets
- Critical success factors
- Strategy development
- Controlling activities
- Strategy map

#### **Question 6 (10%)**

Give generic examples of various critical success factors that may often be relevant for a company in the four different strategic perspectives:

- Infrastructure and resources (often also called learning and growth)
- Internal processes
- Customer/market
- Finance

#### **Question 7 (10%)**

Explain *The Resourced Based View* and how this concept can contribute to increasing a company's competitive advantages. Comment also on how focus on value adding resources may affect the design of a balanced scorecard model for a company.

#### **Question 8 (20%)**

The Activity Corporation AS utilizes Activity Based Costing for its product costing. The company produces four different products, Alpha, Beta, Gamma and Kappa, and in the manufacturing process indirect costs are grouped in four different activity groups:

- Procurement
- Maintenance
- Machine calibration and set-up
- Quality control

The following information is available from the 2018 budgets:

			Available	Budgeted
Activity	Fixed costs	Cost driver	capacity	capacity
Procurement	3 000 000	No. of orders	5 000 orders	4 000 orders
Maintenance	1 000 000	No. of jobs	2 000 jobs	1 500 jobs
Calibration and set-up	400 000	No. of set-ups	4 000 set-ups	3 000 set-ups
Quality control	2 000 000	No. of tests	10 000 tests	8 000 tests
Facility based costs	2 500 000	N/A		
Total budgeted costs	8 900 000			

			Number of	Number of	Number of	
	Direct cost	Number	purchase	maintenance	machine	Number of
Product	per unit	produced/sold	orders	jobs	set-ups	quality tests
Alpha	1 000	1 000 units	300	200	200	600
Beta	1 500	800 units	700	400	1 000	400
Gamma	2 000	600 units	2 000	100	1 000	4 000
Карра	4 000	200 units	1 000	800	800	3 000
Total			4 000	1 500	3 000	8 000

a)

Show how budgeted manufacturing costs can be divided between costs for utilized capacity and costs for excess capacity.

#### b)

Present a costing model for one unit of the product Alpha, based on the budgets for year 2018.

#### **Question 9 (10%)**

Explain the basic principles of the lean-philosophy (classical "lean manufacturing") and give examples of how these principles can be used in real life.