

General Certificate of Education Advanced Level Examination January 2012

Accounting

ACCN4

Unit 4 Further Aspects of Management Accounting

Monday 30 January 2012 1.30 pm to 3.30 pm

For this paper you must have:

- an AQA 12-page answer book
- a calculator.

Time allowed

• 2 hours

Instructions

- Use black ink or black ball-point pen.
- Write the information required on the front of your answer book. The **Examining Body** for this paper is AQA. The **Paper Reference** is ACCN4.
- Answer all questions.
- All workings must be shown and clearly labelled; otherwise marks for method may be lost.
- Make and state any necessary assumptions.
- Do all rough work in your answer book. Cross through any work you do not want to be marked.

Information

- The marks for questions are shown in brackets.
- The maximum mark for this paper is 90.
- Four of these marks will be awarded for:
- using good English
- organising information clearly
- using specialist vocabulary where appropriate.

Answer all questions.

ask 1		Total for this task: 8 mark
Ū	nd sells scarves. During the yea sts for all 600 scarves are:	r, she expects to make 600 scarves.
	£	
Direct materials	2100	
Direct labour	1500	
Fixed overheads are ex	pected to be £2400 per year.	
The selling price is cald	culated as full cost plus 20%.	
0 1 Calculate the	selling price per scarf.	(4 mark



Using the selling price you calculated in **0 1**, calculate the:

(4 marks)

- (i) number of scarves that Keisa needs to make to break even
- (ii) revenue at the break-even point.

Total for this task: 30 marks

Locksum Ltd manufactures padlocks.

Task 2

The following information is available for the year ended 31 October 2011.

	£
Inventory (stock) of raw materials	
At 1 November 2010	12 000
At 31 October 2011	16 000
Inventory (stock) of work in progress	
At 1 November 2010	6 400
At 31 October 2011	4 200
Inventory (stock) of finished goods	
At 1 November 2010	26 000
At 31 October 2011	34 000
Revenue (sales)	460 800
Purchases of raw materials	64 500
Carriage inwards	6 100
Wages	84 300
Rent	18 900
Royalties	7 000
Factory overheads	24 200
Insurance	13 200
Administration costs	42 000
Distribution costs	27 000

Additional information

- (1) At 31 October 2011, wages owing were £9200. 60% of the total wages for the year were to be allocated to the factory. Of the factory wages, 30% were direct and the rest were indirect.
- (2) At 31 October 2011, rent paid in advance amounted to £1200. Two thirds of the rent for the year was to be allocated to the factory and the rest was for the office and distribution centres.
- (3) 75% of the insurance for the year was to be allocated to the factory and machinery.
- (4) Machinery at cost was £300 000. Depreciation is to be charged over 5 years using the straight-line method. There is no expected scrap value at the end of the 5 years.
- (5) The company produces 400 000 padlocks per year.

0 3

Prepare the manufacturing account for *Locksum Ltd* for the year ended 31 October 2011.

(14 marks) (this includes 1 mark for quality of presentation)

The directors of *Locksum Ltd* are considering a relocation of the manufacturing process to eastern Europe. This will cost the business \pounds 1.5 million, which includes redundancy payments to the current workforce. The directors, however, believe that profitability will increase in the long term as the cost per padlock will be reduced to 40p.

0 4

Write a report to the directors of *Locksum Ltd* recommending whether or not the manufacturing process should be moved to eastern Europe. Consider both the financial effects and the non-financial effects from the viewpoint of the shareholders.

(16 marks) (this includes 2 marks for quality of written communication)

Total for this task: 31 marks

The directors of *Morgernzstern Ltd* plan to introduce a new product. In order to manufacture the product, a new machine will have to be purchased at a cost of £300 000. This machine is expected to be operational for 3 years, at the end of which there is no expected residual value. The machine will be depreciated using the straight-line method.

The new product is expected to sell for £40 per unit.

The cost of each unit will be made up of:

Direct materials: 0.25 metres at £16 per metre

Direct labour: 30 minutes at £28 per hour.

Annual production is expected to be 6000 units in the first year. Thereafter, annual production will increase by 20% compared to the previous year.

Maintenance costs are expected to be £2000 per annum, which will increase in year 3 to £3000. Annual fixed costs are expected to be £40 000.

The cost of capital is 8%.

0

Task 3

The following discount factors are available:

	8%
Year 1	0.926
Year 2	0.857
Year 3	0.794

5 Calculate the net present value of the new machine.

(18 marks)

Turn over for the next question

The directors decided to buy the new machine. During the first year, 6200 units were produced. The actual expenditure for the first year was:

	£
Direct material (2600 metres)	31 200
Direct labour (3000 hours)	60 000

0 6

Calculate the following sub-variances:

- (i) direct material price variance
- (ii) direct material usage variance
- (iii) direct labour rate variance
- (iv) direct labour efficiency variance.

(8 marks)



- Explain:
 - (i) two possible reasons for the labour efficiency variance
 - (ii) the effect of the labour efficiency variance on the budgeted profit for the first year.

(5 marks)

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Total for this task: 21 marks

Calvin Clobber Ltd manufactures three types of jacket: Leather, Sports and Flak.

The company has one machine which is operating at full capacity but demand cannot be fully satisfied.

The following information is available for the three jackets.

	Leather £	Sports £	Flak £	
Selling price	114	98	72	
Direct materials (£12 per metre)	36	24	18	
Direct labour (£12 per hour)	18	24	12	
Expected annual demand (units)	18 000	10 000	9 000	
Only 33 000 labour hours are availabl	e per annum.			

0	8	Calculate the contribution per labour hour for each jacket.	(6 marks)
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0 9	Calculate the optimum production plan which Calvin Clobber Ltd could introdu	ice that,
	given the limited number of labour hours available, would maximise profit.	(4 marks)

1	0	Explain briefly the limitations of the production plan calculated in	0	9].	(4 marks)
-	-				1.5	(

The directors decide to implement the production plan from 0 9 . The directors intend to
make full use of the 33 000 labour hours available per annum. Over the year, the business
operates over 13 four-week periods, with five working days in each week. Each factory employee
works 40 hours a week, except in periods 11, 12 and 13 when demand is at a seasonal peak and
each employee does an extra two hours per day.

Prepare an extract from the labour budget for each of the periods 10–13, showing the maximum number of employees and the total hours worked per period. (7 marks) (this includes 1 mark for quality of presentation)

END OF QUESTIONS

Task 4

There are no questions printed on this page