Surname

Candidate Number

Other Names



GCE A level

1605/01

APPLIED BUSINESS – ABUS5 Paper version of on-screen assessment

P.M. WEDNESDAY, 12 June 2013

2 hours

INSTRUCTIONS TO CANDIDATES

Use black ink or black ball-point pen.

Write your name, centre number and candidate number in the spaces at the top of this page.

Candidates are required to answer **any two** of the following sections:

- Section A Decision-making and the Marketing function. Pages 4 - 10.
- Section B Decision-making and the Production function. Pages 12 - 17.
- Section C Decision-making and the Finance function. Pages 18 - 23.
- Section D Other decision-making tools. Pages 24 - 28.

For Examiner's use only **SECTION** Mark All questions in **both** your chosen sections Question Awarded are compulsory. 1 The context for all sections is set in 2 the Introduction. 3 4 **INFORMATION FOR CANDIDATES** 5 **Quality of Written Communication** 6 7 This will be assessed in questions: 1 Section A Question 7 2 Section B Ouestion 6 3 Section C Question 7 4 Section D Question 7 5 Calculators may be used 6 7 Total

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INTRODUCTION

3







Freezefree Ltd

The following information applies to all sections.

Freezefree Ltd (*FF Ltd*) is a supplier of double-glazed windows, doors and conservatories. Products sold by *FF Ltd* are made from glass and from uPVC, a rigid plastic-type material widely used in the building industry. uPVC is low maintenance, long-lasting, and can be manufactured in a range of colours and finishes.

In your local area *FF Ltd* has a site containing its Head Office and one of its factories. On this site, in addition to the factory and Head Office premises, there is a showroom where *FF Ltd's* products are displayed.

You have been placed in FF Ltd's Head Office for a period of work experience.



Hello, it's nice to meet you. Let me introduce myself. My name is Kevin Brown and I work in Freezefree Ltd's Human Resources department. I've located a desk for you, and we'll soon have you working on a few tasks to help us. Before we do that, I'm in the process of arranging a short induction programme for you, so you'll soon know a lot more about our company and what we do here.

SECTION A

Decision-making and the Marketing function



As part of your induction, I'll give you some information on our four main product groups. We analyse these product groups using the 'Boston Box' matrix, which you might know. We keep a close eye on the markets for these product groups by monitoring our sales trends and our approaches to marketing.

1. Kevin has sent you the following email as part of your induction.

From To Date Subject	 Kevin Brown Work Experience Student Today Products and markets

Our four product groups are: (a) windows and doors, (b) conservatories, (c) solar panels and (d) driveways.

Double-glazed windows and external doors are our staple products and we are one of the largest manufacturers in this long-established, mature market that is still growing, but slowly.

The market for conservatories is more recent and a faster-growing one. It took us some time to become involved in this market so we have only a small share of it, even though our products are popular with homeowners.

The solar panel market is the newest one and is growing very quickly. We learned our lessons from the slow entry into the conservatory market, so we moved quickly and have a large slice of this market.

It's a good idea in principle to diversify, but you need the right products. We've found the driveway market to be competitive and with slow growth. We sell few driveways, partly because people don't see us as specialists in this market.

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Examiner only

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Decide how **each** of *FF Ltd's* four product groups would be classified using the BCG Matrix ('Boston Box') analysis. Support your decisions by quoting relevant evidence from the email. [8]

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Kevin Brown has asked you to identify any trends contained in the table below, which shows sales figures for external doors made and sold by *FF Ltd*. 4.

Calculate the moving total and moving average of **four quarters'** sales. Enter the results of your calculations in the **unshaded** cells in the Moving Total and Moving Average columns. [8]

Year/ Quarter		External doors sold	Moving Total	Moving Average
2010	Q2	1 257		
	Q3	842		
	Q4	2 2 8 6		
	x ·			
2011	Q1	1 951		
	Q2	1 229		
	Q3	818		
	Q4	2 2 6 6		
2012	Q1	1935		
	02	1 217		
	Q2	1 21 /		
	Q3	810		
		2262		
	Q4	2 2 6 2		
2013	Q1	1 935		

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Using show	g the information given in question 4 and your calculations, comment on any trend(s) n. [2]
The 1 varia	table in question 4 contains evidence of seasonal variations but no evidence of random tions.
(a)	Outline what is meant by 'seasonal variations', using information from the table to support your answer. [2]
(b)	Give two likely examples of the causes of random variations for <i>FF Ltd</i> . [2]

Turn over.

Examiner only The table in question **4** shows the combined sales figures for the different types of external doors made and sold by *FF Ltd*. 7. Assess how helpful this time series analysis is to FF Ltd. [6]

END OF SECTION A

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Turn over.

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SECTION B

12

Decision-making and the Production function



When you visit our factory, you'll meet Harry Langton, our Production Director. Harry will no doubt explain that we are in the process of changing some of our production methods. I know Harry is planning to introduce some new approaches to production work that he thinks will benefit both the company and the Production staff. We've already reviewed and changed how we deal with our stocks – something about FIFO and AVCO. It's not my area of expertise so I'm sure Harry will explain further.

- 1. *FF Ltd's* factory uses job, batch and flow production methods. At present, door panels and fittings are made in batches. Harry Langton, the Production Director, hopes to start making these door panels and fittings using flow production methods.
 - (a) Outline two factors that the Production Director needs to consider before changing the production method from batch production to flow production. [4]

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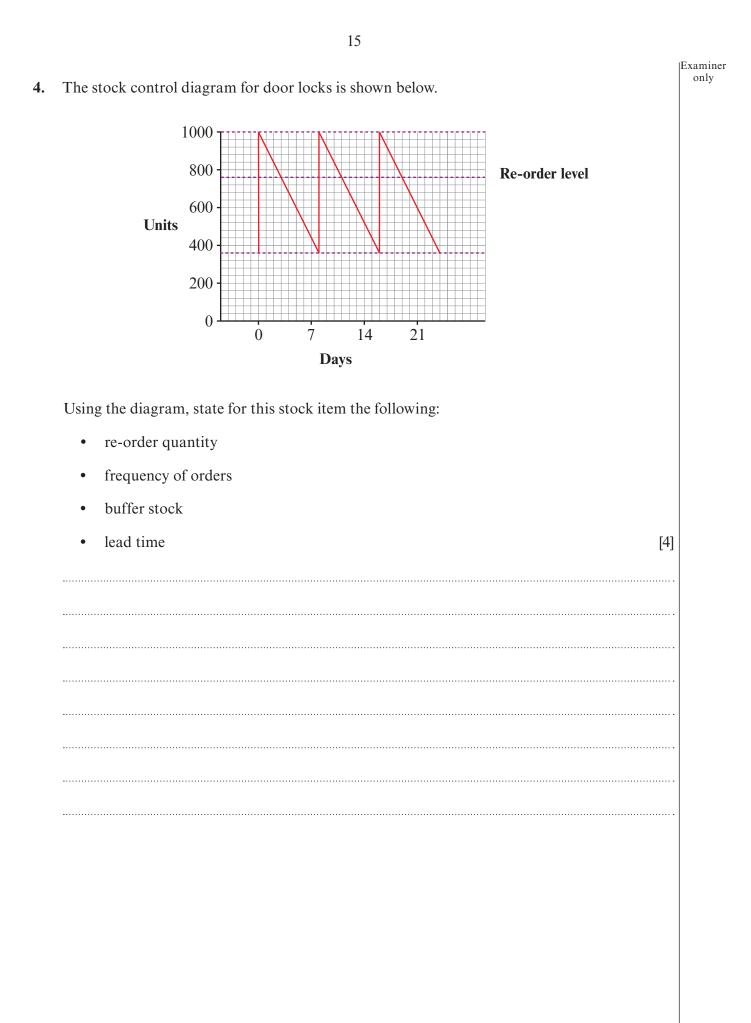
- 13
- (b) Describe **one** advantage and **one** disadvantage to the **employees** if *FF Ltd* switches to building door panels and fittings using flow production methods. [4]

Other products made by FF Ltd include the following:
• Windows. Each window is manufactured using measurements taken by <i>FF Ltd's</i> sales employees who have visited customers' houses.
• Solar panels. FF Ltd makes solar panels in three different sizes.
Choose the most appropriate production method for each of these products, giving a reason in each case why this production method is being used. [4]

Examiner only

2.

(a)	What is 'cell production'?	[2]
(b)	Outline one advantage to <i>FF Ltd</i> if cell production is introduced into the factory.	[2]
(c)	Analyse how <i>FF Ltd</i> will need to adapt or change in order to implement cell product successfully into the factory.	tion [4]



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Examiner only

Avera	The Production Department has recently changed the First In First Out (FIFO) method to the Average Cost (AVCO) method for its closing stock. The calculation used by <i>FF Ltd</i> for both methods is:						
	number of items in stock \times cost per item = closing stock held						
(a)	Name one other business function that would be involved in agreeing to this change Give a reason for your choice of business function. [2]						
(b)	Explain why, when <i>FF Ltd</i> uses the same calculation for both methods, the closing stoch held will be a different figure if AVCO rather than FIFO is used. [3]						
(c)	Explain whether the change from FIFO to AVCO is likely to affect <i>FF Ltd's</i> policy of issuing stock to production.						
·····							

Asses	s the benefits gained by $FF Ltd$ as a result of changing from FIFO to AVCO. [8]	Exa
	END OF SECTION B	

SECTION C

Decision-making and the Finance function



We need to keep careful control of our finances because there are so many competitors in the double-glazing industry. We ensure that our cash and other budgets are fully reviewed and we regularly check our costs against the benefits they bring. Although we have good links with a number of retailers, we have to balance the benefits we gain from these links against the costs associated with them.

1. *FF Ltd* has close links with two large retailers. The company has showrooms in most of the stores of both retailers. A sales employee of *FF Ltd* works in every showroom and *FF Ltd* has to pay substantial floor rental costs.

In an attempt to control costs, Georgia Hale, the Finance Director, is proposing that *FF Ltd* should only continue having a showroom at one of these retailers. She has the following information from the most recently published financial statements of each retailer.

Ratio	Retailer		
	Purviance plc	Cherrill Ltd	
Return on capital employed	9.8%	12.3%	
Payables collection period ('creditor days')	35 days	42 days	
Annual inventory (stock) turnover	28.3 times	40.3 times	

For each ratio

• compare the performance of the two retailers

Examiner only

April to March, and <i>Cherrill Ltd's</i> runs from July to June. Explain whether this difference in financial year-ends will influence Georgia's assessment the financial performance of the two retailers.		analyse whether this ratio calculation is relevant to <i>FF Ltd</i> when dec retailer it will continue working	
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Examiner Identify **four** items of information, **other than ratios**, which are needed to give a fuller picture of the financial performance of the two retailers. [4] _____ Explain why ratio analysis is of only limited value to a business such as FF Ltd when making financial judgements. [4]

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3.

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(a)	State the relationship between a cash budget and a cash flow forecast.	[2]
(4)	State the relationship between a cash budget and a cash now forecast.	[~]
<1)		5/3
(b)	Analyse the benefits to FF Ltd arising from the use of cash budgets.	[6]
		••••••

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6. Georgia Hale prepares a monthly Cash Budget Report for *FF Ltd*. For each inflow and outflow, Georgia calculates variances by expressing the actual cash as a percentage of the budgeted cash. She has to complete these calculations for the most recent report, which is shown below.

Complete the report by calculating:

- the total actual cash receipts and payments
- individual actual receipts and payments as a percentage of budget (some calculations have been entered for you) [6]

Budget versus Actual Report							
	ItemBudget (£)Actual (£)% Variance						
Opening ca	sh balance	50 000	50 000	100.0			
Receipts:	Cash sales	120 000	117 600	98.0			
	Receipts from debtors	280 000	268 800	96.0			
Total receip	ts	400000					
Payments:	Stock purchases	88 000	89 760				
	Payroll	192 000	201 600				
	Selling and distribution	22 500	45 000				
	Administration	62 500	63 125				
	Plant and equipment	30 000	30 000				
Total paym	ents	395000					
Closing cas	h balance	55000					

Examiner only

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7. Using information in the report provided in question 6 and your calculations, assess the performance of *FF Ltd* in terms of meeting its budgeted cash figures. As part of your assessment, state the **largest** variance and suggest likely reasons for this. [6]

END OF SECTION C

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SECTION D

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Other decision-making tools



We make and sell a variety of products. Although double-glazed windows and external doors are our staple products, we're keen to develop our market share of solar panels, which are becoming more popular in the UK and are profitable for us. We're examining a couple of options we have in terms of trying to increase our share of this fast-growing market in the UK and the rest of Europe.

1. The table below shows recent sales figures for two of *FF Ltd's* door styles. Using this table, convert these sales into index numbers. *FF Ltd* uses 2005 as the base year for all index number calculations.

Your index numbers should be calculated and rounded to **one** place of decimals.

Year	'Rose' Model (£)	'Rose' Index	'Tulip' Model (£)	'Tulip' Index
2012	43 350		40 528	
2011	43 265		40230	
2010	43 180		39932	
2009	43 095		39634	
2005	42 500	100.0	37 250	100.0

Examiner only

[4]

2. Using the table from question 1 and your calculations, analyse the sales performance of these two models. [4]

3. The market for solar panels is a fast-growing one, and *FF Ltd* has a large share of this market. *FF Ltd* has obtained the following index numbers on renewable energy.

Solar panels, v	vind and wave energy production:				
2010 $Q1 = 100$					

Period	Index
2010 Q1	100.0
2010 Q2	105.2
2010 Q3	139.7
2010 Q4	125.9
2011 Q1	132.8
2011 Q2	158.6
2011 Q3	155.1

Identify two weaknesses if FF Ltd uses this index for forecasting purposes.

[4]

Examiner only 4. At present *FF Ltd* makes and sells three sizes of solar panels. The directors of *FF Ltd* are considering two alternative courses of action. E_{consider}

Option A to start making and selling a new size panel

Option B to make and sell 'standard' and 'superior' versions of the three panels

The directors have constructed a decision tree to help in their decision. The decision tree shows Option A is expected to generate an extra $\pounds 276\,000$ sales a year and Option B is expected to generate an extra $\pounds 278\,000$ sales a year.

[8]

Explain the limitations of decision trees in this situation.

Examiner The directors have decided to use the Average Rate of Return (Accounting Rate of Return) 5. (ARR) to review Options A and B mentioned in question 4. Describe the purpose of the ARR and state how it can be calculated. [4] Options A and B mentioned in questions 4 and 5 will have the same initial capital investment 6. of £380000. The profits for both options are as follows: **Option A (£) Option B (£)** Year 1 30000 16000 Year 2 45000 37000 Year 3 45000 50000 Year 4 50,000 65000 (a)Calculate the ARR for each option. [4]

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Examiner only Assess the information provided on the options and the results of your calculations and advise *FF Ltd* on which, if any, option it should select. [4] *(b)* Assess the value to the directors of FF Ltd of using the ARR method to make this decision. 7. [8]

END OF SECTION D