Centre No.					Pape	r Refer	ence			Surname	Initial(s)
Candidate No.			3	5	0	3	/	0	2	Signature	

Paper Reference(s)

3503/02

Edexcel GCSE

Business Studies (Short Course)

Paper 2H

Higher Tier

Tuesday 9 June 2009 – Afternoon

Time: 1 hour 30 minutes

Materials required for examination	Items included with question papers
Nil	Nil

Instructions to Candidates

In the boxes above, write your centre number, candidate number, your surname, initial(s) and signature.

Check that you have the correct question paper.

Answer ALL the questions.

Write your answers in the spaces provided in this question paper.

Do not use pencil. Use blue or black ink.

Information for Candidates

The marks for individual questions and the parts of questions are shown in round brackets: e.g. (2). There are 4 questions in this question paper. The total mark for this paper is 63. There are 12 pages in this question paper. Any blank pages are indicated. You may use a calculator.

Advice to Candidates

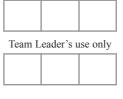
You are reminded that you will be awarded up to 3 marks for the quality of your written communication. Remember to show all stages in any calculations and to state the units.

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Question Number	Leave Blank
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2	
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QWC

Total



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Context - B & R Engineering Ltd

James Broadfield founded Broadfield Engineering, just outside Birmingham, in 1946. In 1962, Paul Rose joined the flourishing business as a partner and it was renamed B & R Engineering. It is near to its main customers, the Midland car industry and its raw material suppliers, the steel industry, making this an ideal location.

In 1984, Paul's son, Andrew, joined the business straight from school at 16. Today, following the retirement of both James and Paul, Andrew is the Managing Director and sole shareholder of B & R Engineering Ltd at its new bigger factory also just outside Birmingham.

B & R Engineering Ltd specialises in the manufacture of machine press tools and prototype parts. Its main customers are component companies that produce components, such as gear boxes, clutches and brake assemblies, for the motor car industry nationally and internationally (see chart).

B & R Engineering Ltd employs a Works Manager, Accountant, 5 machine tool makers, 3 CNC operators, 1 workshop technician and 1 part-time office clerk.

Specialist machine press tool making is in a highly competitive worldwide market. In recent years, many British companies have looked to the Far East, China and Korea, to purchase their machine press tools but some companies are returning to manufacturers in the UK.

B & R Engineering Ltd has invested heavily in CAD/CAM using American software which has been specially developed for its needs. It believes in and operates TQM.

Its mission statement is – 'to become a market leader by continuous investment in the most advanced technology in the world.' It has a 20-year plan to achieve this aim through the objectives of increasing profits and growth of its market share.

Andrew Rose says: "We have very high staff retention and while this is partly due to the good salaries paid, a lot of this is down to our approach to the business. We believe that our staff share our values and are proud of the quality of their work. This is very important because without their support we would not be as successful as we are. We are one of the quiet little businesses just getting on with things. Our success is based on successfully marrying new technology with a happy workforce".

B & R Engineering Ltd tries to attract well qualified machine tool makers. It offers apprenticeships and sponsorship as well as attending graduate job fairs.



The following chart shows where the business fits into the chain of production for the car manufacturing industry.

Raw Steel Stockists

B & R Engineering Ltd

SPECIALIST MACHINE PRESS TOOL AND PROTOTYPE PARTS MAKERS DESIGNS AND PRODUCES THE TOOLS THAT WORK IN THE MACHINES THAT MAKE THE CAR PARTS

Component Manufacturer

eg MAKES PARTS FOR CARS USING THE TOOLS DESIGNED AND PRODUCED BY B & R ENGINEERING LTD

Car Plant

ASSEMBLES CARS



(2)

Answer ALL the questions.

1. The organisation chart for B & R Engineering Ltd is shown below.

Managing Director (Andrew Rose) Accountant Works Manager Office Clerk Workshop **CNC** Machine tool makers technician operators **Apprentices** (a) Using information from this chart, define the following terms. (i) Hierarchy. **(2)** (ii) Delegation. **(2)** The Works Manager writes the job advertisements for new factory employees. (b) Analyse ONE way the Sex Discrimination Act will influence the Works Manager when writing the job advertisement.



(=) Inh descriptions
(1) Job descriptions.
	(2)
(i	i) Interviews held at the factory.
	(3)
	B & R Engineering Ltd employees attend training courses in order to know how to e specialist CAD/CAM software made for the company.
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se the	B & R Engineering Ltd employees attend training courses in order to know how to e specialist CAD/CAM software made for the company.

(a)	Why is job production used in this situation?
	(3
a lo	duction methods. These tools are advertised on leaflets that are produced in batches becal printer.
	(i) Outline the differences between batch production and flow (mass) production.
	(1) Outline the differences between batch production and flow (mass) production.
	(1) Outline the differences between batch production and flow (mass) production.
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	(1) Outline the differences between batch production and flow (mass) production.
	(1) Outline the differences between batch production and flow (mass) production.

			(2)
& R Engineering Ltd	uses a Just-in-Time (JIT	(i) system for the rav	materials they use.
Consider ONE advusing JIT.	antage and ONE disad	vantage to B & R I	Engineering Ltd from
			(6)
			(Total 15 marks)



Leave
blank

3.	. At present, B & R Engineering Ltd makes specialist machine press tools. Andre thinking of buying second-hand machine tools, reconditioning (repairing and upda and then selling them.								
	Andrew	plans to carry out primary (field) market research.							
	(a) (i)	What is meant by primary market research ?							
		(2)							
	(ii)	How can primary market research help Andrew decide whether to buy and recondition the second-hand machine tools?							
		(3)							



Andrew has been given information that shows the following trends.
Compared with two years ago:
Trend 1 CAD/CAM machines are coming down in price
Trend 2 some British companies that had switched to buying machine press tools from overseas manufacturers are starting to buy more from British suppliers.
(b) Analyse how Trend 1 and Trend 2 are likely to affect B & R Engineering Ltd.
(6)



c)	Referring to the context, examine TWO other suitable business objectives for this company.
	(4)
	(Total 15 marks) R Engineering Ltd advertises its products. It also advertises for new employees. How will advertising P. & P. Engineering Ltd's products differ from advertising for
	R Engineering Ltd advertises its products. It also advertises for new employees. How will advertising B & R Engineering Ltd's products differ from advertising for
	R Engineering Ltd advertises its products. It also advertises for new employees. How will advertising B & R Engineering Ltd's products differ from advertising for
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	R Engineering Ltd advertises its products. It also advertises for new employees. How will advertising B & R Engineering Ltd's products differ from advertising for new employees?



Andrew plans to buy some new CAD/CAM equipment. The software needs updating to run on this new equipment, and staff training will be necessary. Expected costs are as follows.

	£
CAD/CAM equipment	75 000
Updating software	5 000
Training costs	1 500
	81 500

Andrew has two sources of finance available. He can invest more of his own money as additional capital or take out a medium-term bank loan.

(b)	Consider which source of finance Andrew should use in this situation.



(Question 4 continues on next page)

(Question 4 continued)	Leave blank
(10)	Q4
(Total 15 marks)	
Quality of Written Communication: 3 marks	
TOTAL FOR PAPER: 63 MARKS	
END	