PAPER 2 SECTION A Question 1

(a)		Proposal B		
	£000		£000	
	Cost of Capital			
	Ordinary shares	75 1 Mark	50 1 Mark	
	Preference Shares	15	15	
	Debentures	0	<u>15</u> 1 Mark	
		_ 90_	80	
(b)	Weighted Average Cost	9% 1 Mark	8% 1 Mark	

(b)

Proposal A is lowly geared, Proposal B is highly geared. 1 Mark

Ordinary shareholders have last claim on profit. **1 Mark**. First £30k of appropriated

profit in Proposal B will be paid to Preference shareholders and Debenture holders

compared to only £15k in Proposal A. 1 Mark.

Proposal B Ordinary shareholders are at greater risk. **1 Mark**

Ordinary shareholders may receive no profits in a recession with Proposal B. **1** Mark.

(c)	<u>Optio</u>	<u>n 1</u>				
	Year	Income	Costs	Net	Factor	NPV
		£000	£000	£000	£000	£000
	0			800	1.000	(800)
	1	420	200	220	0.909	200.0 1 Mark
	2	420	210	210	0.826	173.5 1 Mark
	3	437	220	217	0.751	163.0 1 Mark
	4	454	230	224	0.683	153.0 1 Mark
	5	471	240	231	0.621	143.5 1 Mark
	5	200	0	200	0.621	<u>124.2</u>
		(1)	(1)		NPV	<u>157.2</u> 1 Mark
OF						

Component marks if alternative method for 3 correct in column

<u>Optio</u>	<u>n 2</u>					
Year	Income	Costs	Net	Factor	NPV	
	£000	£000	£000	£000	£000	
0			800	1.000	(800)	
1	368	250	118	0.909	107.3	1 Mark
2	368	260	108	0.826	89.2	1 Mark
3	389	270	119	0.751	89.4	1 Mark
4	410	280	130	0.683	88.8	1 Mark
5	431	290	141	0.621	87.6	1 Mark
5	200	0	200	0.621	<u>124.2</u>	1 Mark
	(1)	(1)		NPV	<u>(213.5)</u>	

Component marks if alternative method for 3 correct in column

(d)

Option 2 should not be considered as it does not achieve the IRR. **1 Mark OF** Option 1 returns considerably in excess of the IRR **1 Mark OF**

Option 1 should be recommended. 1 Mark OF

Question 2

(a) Allocation - whole cost items charged direct to a cost unit or centre. 1

Mark

Apportionment - cost items or cost centre costs divided between several other cost

centres in a 'fair' proportion based upon the estimated benefit received.

1 Mark

(b)

		TOTAL OVE	RHEAD		
	Machining	Assembly	Finishing	Stores	Admin
	£	£	£	£	£
Indirect	4 800	4 250	3 800	1 600	5 800
Rent	8 400	6 000	4 800	2 400	2 400 2 Mark
Plant Ins	4 000	1 200	2 000	800	2 000 2 Mark
Plant Depr	20 000	6 000	10 000	4 000	10 000 2 Mark
Energy	4 800	1 800	2 400	1 200	1 800 2 Mark
Supervision	<u>16 000</u>	<u>24 000</u>	<u>10 000</u>	2 000	<u>8 000</u> 2 Mark
	58 000	43 250	33 000	12 000	30 000

(c) Re-allocation:

Stores Admin	5 000 <u>12 000</u> 75 000	4 000 <u>9 000</u> 56 250	3 000 1 Mark OF <u>9 000</u> 1 Mark OF 45 000
Divided By: Machine Hrs Labour Hrs	7 500	22 500	1 Mark 9 000 1 Mark
Equals	£10 per hour	£2.5 per hour	£5 per 2 Marks OF hour

(d)

	Quotation For Job 638			
		£	£	
Raw Material	50 metres of tube @ £8 20 metres of tube @ £6.50	400 <u>130</u>		
			530	2 Marks
Direct Labour	Machining 20 hrs @ £8	160 (1)		
	Assembly 25 hrs @ £6	150 (1)		
	Finishing 15 hrs @ £7	<u>105</u>		
			415	2 Mark
Overheads	Machining 10 hrs @ £10	100 OF		
	Assembly 25 hrs @ £2.5	62.5 0F		

Finishing	15 hrs @ £5	75 OF

237.5 **1 Mark OF**

1 182.5

20% Mark Up

236.5**_ 1 Mark**

OF

Total Price

1 419 **1 Mark**

OF

Question 3

Cash Budget for the six months ended 30 September 2 002 1 Mark

	April £	May £	June £	July £	Aug £	Sept £	
Receipts Capital Sales		5 000 12 000 12 000				<u>12 000</u> 0 12 000	1 Mark 4 Marks
Payments							
Purchases	6 000	4 000	5 000	8 000	10 000	1 000	1 Mark
Staff wages	700	700	1 400	2 100	2 100	1 400	1 Mark
Shop Rental	5 000			5 000			1 Mark
Equipment	8 000						1 Mark
Services		900	900	900	900	900	1 Mark
Drawings	1 000	1 000	2 000	2 000	5 000	5 000	2 Mark
-	20 700	6 600	9 300	18 000	18 000	8 300	
Closing Balance	(6 700) (1 300)	4 400	10 400	22 400	26 100 1 Mark

(b)

OF

Trading, Profit and Loss Account for the six months ended 30 September 2002

	£	£	
Sales		102 000	1 Mark
Less			
Cost of Sales		<u>34 000</u>	
Gross Profit		68 000	1 Mark
Less			
Staff Wages	8 400		1 Mark
Shop Rental	10 000		1 Mark
Equipment depreciation	1 600		1 Mark
Services and administration	5 400		1 Mark
		<u>25 400</u>	
Net Profit		<u>42 600</u>	

(c)

i) Working capital - current assets - current liabilities 1 Mark

ii)Profit is an important source of funds **1 Mark**

Working capital can be increased/ decreased by movement in the level of creditors,

debtors and stock. 1 Mark

Capital purchases or repayments can significantly change the levels of working capital. **1 Mark**

SECTION B Question 4

(a)

Variable costs - costs which rise as the volume of activity increases. **Up to 2**Marks

Fixed costs-costs which remain constant regardless of the volume of activity. **Up to 2Marks**

Material/labour not variable - e.g labour machine set up costs 1 Mark

Overheads not fixed - e.g any semi fixed cost - supervision, telephone **1 Mark**

(b)

	Variable	Fixed	
	£	£	
Materials	7 per unit (1)	5 000 (1)	2 Marks
Labour	8 per unit	(1) 15 000 (1)	2 Marks
Overheads	<u>10 per unit (1)</u>	<u>21 000 (1)</u>	2 Marks
Total	<u>25 per unit</u>	<u>41 000</u>	

Fixed Cost (1) =	£41 000 (1) 0F	= 8 200 units 3 Marks OF
Contribution	£30 - £25 (1)0F	

Question 5

(a) Attributes - continuous or repetitive - MASS PRODUCTION.

costs charged to process costs averaged over units

Up to 2 Marks per attribute X 2

(b)

	EQUIVALENT UNITS						
	Ltrs		Ltrs	Mat	Lab	Over	
Inputs	10 000	Completed	8 500	8 500	8 500	8 500 (1)	
		Normal Loss	800	0	0	0	
		Abn'l Loss	200	200	200	200 (1)	
		Closing Stock	500	<u>500</u>	400	<u>300</u> (1)	
	10 000	<u>1</u>	0 000	<u>9 200</u>	<u>9 100</u>	<u>9 000</u>	
				_	_	_	
		COST		£	£	£	

Inputs	18 400	9 100	18 000	(1)
Cost Per Equiv Unit	2	1	2	5 Marks
EVALUATION Completed Normal Loss Abn'l Loss Closing Stock	£ 17 000 0 400 1 000 18 400	0 200 400	0 400	Marks OF B Mark OF

Question 6

(a)

Productivity - Relationship between inputs and outputs. **1 Mark**Judgement related to a benchmark yardstick e.g previous production

level/costs to establish variations in productivity level. Up to 2

Marks

Value for money - 'Value' is less objective than clear production inputs. **1 Mark**Often subjective as to criteria used to establish judgement

Up to 2 Marks

(b) Original cost per item. 8 staff x 8 hours x £5 =
$$\underline{\texttt{f320}}$$
 =£2 per unit **1 Mark** 160 units

i) 6 staff x 8 hours x £5 =
$$£240$$
 =£2.40 per unit **1 Mark** 100 units

Reduced productivity 1 Mark OF

ii)10 staff x 8 hours x £5=
$$\underline{£400}$$
 =£1.82 per unit **1 Mark** 220 units

Increased productivity 1 Mark OF

Reduced productivity 1 Mark OF

Increased productivity 1 Mark OF

SECTION C Question 7

(a) Recognises the difference in behaviour between fixed and variable costs.
 Designed to change with such variations.
 Often used retrospectively at end of a period to compare actual results achieved

with what results should have been under the circumstances.

To operate behaviour pattern of all costs must be identified.

Up to 2 Marks per point.

(b) Used in budgetary control.

Factor which limits the activity of an entity.

Examples e.g raw materials, skilled labour, sales.

Factor requires maximisation by achieving greatest contribution per unit of the factor.

Up to 2 Marks per point.

(c) Used in standard costing

Perfect operating conditions.

Pinpoints areas of potential large savings.

Often poor motivational implications.

Alternative to attainable or current standards.

Up to 2 Marks per point

(d) Used in standard costing

Standard cost is an average cost.

Actual results will probably differ from average.

Only exceptions outside tolerance range reported.

Up to 2 Marks per point

Question 8

(a) Marginal costing

Absorption costing

1. Variable costs are charged to units. allotted

1.Variable and fixed costs

to cost units total overheads are absorbed according to activity.

2., Fixed costs attributable to periods of time and not to units.

2.Overheads not attributable to Period of time but to units.

3. Fixed costs written off in full against period of time.

3.Overheads can be carried forward to the next period in the value of each unit.

2 Mark for each section above MAX 9

- (b) If the company operated marginal costing all finished goods would contain only variable costs **1 Mark** and therefore all fixed costs would be attributable to the period.
- **1 Mark.** If absorption costing had been used, the closing stock would have all fixed

costs absorbed into the unit value **1 Mark**. As stock levels have risen, a proportion of the fixed costs of the current period would be carried forward **1 Mark** to the next accounting period and therefore the profit of the current accounting period would be greater. **2 Mark MAX 5**

(c) Make or buy decisions.

Special or additional orders.

Maximising income from limiting factors.

Contribution from products or activities.

Up to 2 Marks per item MAX 6