# Answers

## Section A

1	В	6	С	11	D	16	D
2	D	7	D	12	D	17	С
3	В	8	Α	13	Α	18	В
4	D	9	В	14	Α	19	В
5	Α	10	С	15	D	20	D

#### Workings:

- **4** The net book value of non-current assets is reported as \$2,562,500. This is after deduction of the accumulated depreciation of \$1,475,400. Thus the cost of the non-current assets is \$4,037,900 (\$2,562,500 + \$1,475,400). Depreciation on the straight-line basis means that the 20% rate is applied to the cost. Depreciation is therefore \$807,580.
- 5 A provision is required when a past event gives rise to a reasonable certainty that a transfer of economic benefits will occur, but either the amount which will be transferred or the timing of the transfer is uncertain. In this case, Equib has accepted liability, and there is reasonable certainty that an outflow will be required although Equib does not agree that this should be \$750,000. Based on legal advice, the amount (\$45,000) can be estimated with reasonable accuracy, but there is less clarity about when the transfer will take place.

(A contingent liability arises when there is less certainty about either the value of economic benefits which will be transferred or whether a transfer of economic benefits will be required at all. The lack of certainty is because the obligation to transfer economic benefits will be determined in the future by events which the firm is not able to control.)

6	Earnings =	Retained profit + Ordinary dividend	\$689,424 \$65,000
			\$754,424
	Number of sha	ares = $65,000 \div 0.1$	650,000
	Thus $EPS = ($	754,424 x 100) ÷ 60,000 =	116 cents

7 As Orius has not acquired sufficient shares to control the voting at any meeting of members, but has a representative on the board of directors, it is in a position to exercise significant influence over, but not to control, Eerus. This means that Eerus is an associate of Orius.

The correct accounting treatment of an associate is equity accounting (consolidation accounting is applied to subsidiaries).

11	If variable of Thus cont <i>less</i> Fixe = Prof	costs are 70% of sales, contribu ribution is \$726,000 x 30% d costs (balancing figure) it	ition is 3 =	30% \$217,800 \$145,800 \$72,000	
	In next yea Required p Fixed costs Contributio Sales	r: rofit n		\$81,000 \$153,090 \$234,090 \$936,360	= %145,800 + 5% = 25% = 100%
12	Operating p Imputed in Residual in	profit terest icome		\$586,900 \$359,772 \$227,128	(\$2,569,800 x 14%)
13	NOPAT Economic I EVA®	return		\$491,300 \$445,200 \$46,100	(\$586,900 - \$95,600) (\$3,180,000 x 14%)

- 14 As the material currently in inventory has no alternative use and has no salvage value (i.e. no opportunity cost as a result of being used), the relevant cost of using the existing inventory is nil. The cost of the additional 160 units is the replacement cost of 28.00. Thus the contract cost is: 160 units at 28.00 = 44.480.
- **16** Observation (i) is incorrect as some costs will be fixed in the short term. For such costs, it will only be possible to achieve a reduction in the long term.

Observation (ii) is incorrect as ABC will provide a greater insight into the causes of costs. This will allow managers to exercise greater control of costs by focusing attention on managing the causes of costs.

17	Standard output:	
	11 staff x 30 productive hours per week x 4 weeks x 2 per hour =	2,640
	Actual output	2,850
	Variance	210
	As the actual output is greater than standard, this is a favourable variance	се
	Standard cost per question is \$11.38 per query	
	Variance of 210 queries at $11.38 =$	\$2,389.80

18	The total co	st is analyse	d into tv	vo cost pools, as follov	NS:		
	Cost pool	-	Cost dr	iver	cpu of	cost driver	
	Transport		km trav	relled	\$1.76	(\$2,631,200	÷ 1,495,000)
	Processing		orders p	processed	\$4.84	(\$1,573,000	÷ 325,000)
	Thus the co	st to be quot	ted is:				
	per order	Transport		122 km at \$1.76 per	km =		\$214·72
		Processing					\$4·84
		Total					\$219·56
	For 138 ord	lers, the cost	t is \$30,	299-28			

**20** Specialised training on a specific task is incompatible with cellular manufacturing, as the initiative requires the use of multi-skilled staff, capable of completing a range of tasks. A team-based bonus is likely to be successful as it will encourage staff to adopt a team-based approach which should foster the flexibility which is a key element of cellular manufacturing.

#### Section B

1 (a) (i) Thank you for your enquiry about the references to taxation in the financial statements you have been reviewing.

I hope the information below will be helpful.

While it is the case that the taxation liability which arises in one year will be paid in the following year, the charge in the income statement and the liability on the balance sheet will be different for two reasons.

The first reason is that the charge will include an amount in respect of deferred taxation. However, the liability for deferred taxation is reported under the heading 'Provision for liabilities and charges' on the balance sheet.

The second is that the charge in the income statement is an estimate of the liability arising on the current year's profit. It is almost certain that the final liability agreed with the tax authorities will be different to the estimate. Any under-estimate or over-estimate in one year will lead to an adjustment to the charge in the following year.

#### Mark allocation:

1 mark for each valid point, for example: Liability does not include deferred taxation Deferred taxation reported as 'Provision for liabilities and charges' Current year charge is estimated Adjustment in following year to a maximum of

4

3

(ii) Deferred taxation arises because a company's accounting profit and taxable profit will be different. The reasons for the difference can be classified as either permanent differences or timing differences.

A permanent difference occurs when an item is treated differently for accounting purposes and taxation purposes. Examples of this would be entertaining expenses and fines. While these may be charged in the income statement, they are usually not allowable expenses when calculating the taxation charge. If these were the only differences, the taxable profit would be higher than the accounting profit by the total amount of such charges.

Timing differences arise due to items which are included in both accounting profit and taxable profit, but in different periods. Therefore an item may reduce taxable profit in the current period, but will not give rise to a charge in the income statement until a later accounting period. Such differences arise due to specific tax legislation. However, examples might include:

Development expenditure which is an allowable tax charge in the year in which it was incurred, but will be charged against accounting profits over a number of years;

Accelerated capital allowances, which will result in capital expenditure being an allowable tax charge over a shorter period than the useful economic life of the asset.

#### Mark allocation:

Accounting and taxable profit are different	ent	1	
Differences may be permanent difference	1		
Explanation of	permanent differences	up to 2	
	timing differences	up to 2	
Deferred tax arises on timing differences only 1			
to a maximum of		4	

(iii) Deferred tax will affect the financial statements as follows:

As discussed above, the taxation charge in the income statement may include an amount for deferred tax. If the overall liability for deferred tax has increased, this will lead to a charge, and if the overall liability has decreased, this will lead to a credit.

The balance sheet will be affected as any liability for deferred tax will need to be included.

It should also be noted that earnings per share, as reported on the face of the income statement, will also be affected by any movement in the liability for deferred tax. Any charge for deferred tax will reduce 'earnings' and therefore earnings per share, while any credit for deferred tax will increase earnings per share.

Deferred tax included in	income statement	1
	balance sheet	1
	earnings per share	1
Explanation of effect on	income statement	1
	earnings per share	1
to a maximum of		

(b)				\$000		
	Current assets	Inventory	W1	1,050.0	3	
		Receivables	W2	2,240.0	1	
		Prepayments	per q	96.5		
		Total		3,386.5	1	(for correct composition)
	Current liabilities	Payables	W3	2,025.0	1	
		Current tax		290.0	1	
		Bank overdraft		120.0		
		Accrued expenses		131.0		
		Total		2,566.0	1	(for correct composition)
	Thus, current ratio = 3	,386·5 ÷ 2,566·0 = 1	.32		1	9
						20
	W1		\$000	\$000		
	Opening inventory	(per q)		825	$^{1}/_{2}$	
	Purchases to 31 N	larch 2008		3,375	1/2	
	Sales to 31 March	2008	4,200		2	
	Cost of sales (75%	6)		3,150	1	
	Thus Closing inve	ntory		1,050	1	
	W2 $1.6$ months = \$1	,400,000 x 1·6 =	\$2,240,000			
	W3 $1.8$ months = \$1	,125,000 x 1·8 =	\$2,025,000			

## 2 (a) (i) Matsup Co

The key question regarding this arrangement is whether the inventory on site is owned by the supplier or the company.

This is an example of the accounting principle of substance over form, which states that transactions should be accounted for according to their commercial substance, rather than their legal form. One of the key issues is that if the supplier can demand the return of items, and is likely to do so, then the supplier retains title. This would mean that the items will continue to be reported as part of the stock of the supplier.

On the other hand, if the inventory is seldom returned, and the possibility that it may be returned is low, the items will be part of the stock of the customer.

On balance, this arrangement seems to be an arrangement chosen by the supplier in order to encourage sales, by helping the customer to avoid stock-outs.

This means that title to the items does not pass to the company until they are drawn down, and therefore they will not be included in Suform's inventory.

Mark allocation:

1 mark for each valid point, for example: Matsup Consider who owns inventory/when is legal title transferred Can supplier demand return Does this happen often If seldom returned, requirement is of little consequence Appears to be a commercial arrangement, thus supplier owns inventory Ture Monthly charge for usage – as Matsup Inventory will increase to reflect holding of one month's inventory as Suform will have acquired title.

to a maximum of

6

(ii) The accounting treatment will depend on whether the company has acquired an asset and an associated liability.

In considering this, the key question is whether the risks and rewards of ownership have been substantially transferred.

The following would normally be considered:

Is the company legally obliged to make payments which have a present value of 90% or more of the fair value of the asset?

Is the asset to be used by the company for a period which is roughly equal to its estimated useful life? Is the company responsible for the insurance and upkeep of the asset?

	Leasing option A As the answers to these ques	tions are 'no', this	would appear to be	an operating lea	se.			
	Leasing option B In this case: The payments exceed the cost by a significant amount, and the insurance and repairs are the responsibility of the company. These facts suggest that this is a finance lease, and that consequently, the company would acquire an asset and an associated liability.							
	Mark allocation: 1 mark for each valid point, f Are risks and rewards tra Do payments exceed 90 Period of use compared Responsibility for insural Conclusion – A appears B appears To a maximum of	or example: ansferred % of FV to UEL nce/maintenance to be an operatin to be a finance le	g lease Pase			4		
(b)	Payments due under the lease:	pl	48 × \$16,500 = lus Final payment	\$792,000 \$50,000				
	Fair value of machine			\$842,000 \$700.000				
	Thus total finance charge			\$142,000	1			
	Thus annual charge Depreciation: Cost \$700.000		\$142,000 ÷ 4 =	\$35,500 \$175.000 p.	.a. 1			
	Thus: Profit before interest and tax 22.6%, on capital employed of \$9 Less Depreciation	,475,000 =	\$2,141,350 \$175,000	¢1.066.250	1 1			
	= Capital employed			\$1,900,550				
	Estimated	\$700.000	\$9,475,000		1			
	Less Depn.	\$175,000	\$525,000		1			
	Reduction due to payments	\$16,500 ×	12 (198,000)		1			
	Less interest element	\$198,000 \$35,500	(\$162,500)		1			
	Non-current liability	two years Final paymen	(\$325,000) at (\$50,000)		1/2 1/2			
	=		\$9,264,500		1	10		
	Thus ROCE = $\frac{\$1,966,350}{\$9,264,500} \times 100$	= 21.22				10 20		

3 (a) Cash flow statements provide important information to users of financial statements. Perhaps the most important aspect is that by reporting on how cash is generated and used, a cash flow statement provides information on the resource which is essential for business survival – cash. The fact that a firm generates a profit does not mean that it will generate cash. This is because cash will be used to pay tax, dividends and loans.

For some users, particularly creditors and lenders, the ability of the firm to meet its obligations will be more important than profitability. Reporting cash movements is more objective than reporting income and expenses, as is done in the income statement, and assets and liabilities, as is done in the balance sheet. This means that the information provided in a cash flow statement may be regarded as more reliable than the information in the income statement or balance sheet.

Given that the objective in most management decisions is to generate cash rather than profit, a cash flow statement is of more use to both managers and shareholders. As many users of financial statements may find the accruals concept difficult to understand, the focus on cash provides information which is easier to understand. It is also more difficult to mask the effects of transactions through creative accounting.

Different accounting policies will have less impact on the results reported by a cash flow. This means that using cash to compare performance between firms is made easier. Financial statements are intended to provide information on financial performance, financial position, generation of cash and financial adaptability. Clearly a cash flow statement contributes to this objective with regard to generation of cash.

6

Mark allocation: 1 mark for each valid point, for example: Cash is essential for survival Some users are more interested in cash than profitability. Reporting cash is objective Information in cash flow statement is more reliable Cash is easier to understand Creative accounting is more difficult Accounting policies have less impact on results reported by a cash flow Comparison of performance is made easier Reporting generation of cash is a key objective To a maximum of

#### (b) (i) Net cash flow from operating activities

		\$000		
Profit before tax	(W1)	43	2	)
Depreciation charge		302	1	
Movement in invente	ories	(24)	1	
receiva	ables	21	1	
payabl	es	15	1	
Cash generated by o	perating activities	357		
Tax paid	(W2)	(82)	1	. 7
Net cash flow from o	operating activities	275		-
Working 1		\$000		
Retained profit	2007	201	1	
	2006	186		
Increase (= profit af	ter tax)	15		
Tax charge		28	1	. 2
Profit before tax		43		-
<u>Working 2</u>		\$000		
Tax charge in income	e statement	28		
less Increase in Defe	erred Tax Liability	(12)		
		16		
Opening balance		97		
Closing balance		(31)		
Amount paid		82		

## (ii) Net cash flow from investing activities

In this case, there have been no disposals of fixed assets. This means that any cash flow in respect of investing activities is the cost of additions to non-current assets.

	\$000			
Non-current assets at 31 October 2006	1,976			
less Depreciation charge	(302)			
Net book value before additions	1,674	]	1	
Net book value at 31 October 2007	2,168			
Thus additions = outflow	494	]	1	2

## (iii) Net cash flow from financing activities

	2006 \$000	2007 \$000	Increase \$000		
Ordinary share capital	850	900	50	1	
Share premium	32	48	16	1	
Long term borrowings	677	783	106	1	
Short term borrowings	113	197	84	1	4
Total increase = Inflow			256		

## (iv) Movement in cash and cash equivalents

In this case there are no items which are classified as 'cash equivalents' and the only balance relating to cash is the balance at the bank. Thus the movement is the difference between the:

	\$000	
Bank balance at 31 October 2007	51	
Bank balance at 31 October 2006	14	
	_	
Increase	37	1

#### Section C

4	(a)	Income: Chargeable days per annum Already committed thus available × 80% of capacity = thus days sold =	180 45 135 108 (108 + 45) 153			
		Income per consultant: 153 × \$900/153 × \$500 Number of consultants thus total income	Senior \$137,700 16 \$2 203 200	Junior \$76,500 22 \$1 683 000 =	\$3,886,200	
		Costs: Salaries – Senior consultant Junior consultant Other staff Employment costs (\$960 + Training 38 consultants (16 × 2 days each at \$4	16 × \$60,000 22 × \$35,000 \$770 + \$160) × + 22) 400	\$ 960,000 770,000 160,000 10% 189,000 30,400	£0,000,200	
		Administration expenses		830,000	\$2,939,400	
		Budgeted profit			\$946,800	
		Mark allocation: Income Consultant s Employmen Other salari Training Administrati	salaries t costs es ive expenses			2 1 1 1 1 1

7

(b)	(i)	Chargeable days per annum180Already committed4thus available13 $\times$ 120% of capacity =16thus days sold = (162 + 45)20	) 5 5 2 7			
		Additional income for 54 (207 – 15 Senior 54 $\times$ \$900 = \$48,600 $\times$ 1 Junior 54 $\times$ \$500 = \$27,000 $\times$ 2	53) days: 5 consultants \$777 2 consultants \$594 \$1,371	,600 ,000 ,600		
		Additional costs: Bonuses for 27 (207 – 180) days: Senior 27 days at $900 \times 50\% =$ Junior 27 days at $500 \times 50\% =$ Employment costs: $342,900 \times 10\%$	\$12,150 × 16 \$6,750 × 22 \$342 \$34	-,400 3,500 2,900		
			\$377	7,190		
		Additional profit	\$994	,410		
		Mark allocation: Additional income based on 54 extr Bonuses based on 27 days Calculation of additional income Calculation of additional costs	a days	1 1 2 2	6	
	(ii)	At 120% of capacity, 27 days per of Thus, senior consultant days = 27 Junior consultant days = 27	onsultant are required. × 16 = 432 × 22 = 594			
		At 180 contracted days per consultant, this equates to employing:Senior consultant $432 \div 180 = 2.4$ i.e. 3 consultantsJunior consultant $594 \div 180 = 3.3$ i.e. 4 consultants				
		Employing additional consultants w	ould lead to:			
		Savings: Bonus and employment c	ost (per (i)) \$	377,190		
		Costs: Salaries: 3 senior at \$60, 4 junior at \$35,	$\begin{array}{rcl} 000 & = & \$180,000 \\ 000 & = & \underline{\$140,000} \end{array}$			
		Employment costs (10%) Training 7 staff × 2 days a	\$320,000 \$32,000 it \$400 \$5,600 \$	357,600		
		Net saving		\$19,590		
		Mark allocation Savings Costs salaries employment o training	costs	$ \begin{array}{c}     1/_{2} \\     1/_{2} \\     1/_{2} \\     1/_{2} \\     1/_{2} \\   \end{array} $	2 8	

NB Marks were also awarded for other valid interpretations of the data.

#### (c) To Managing partner From Administration manager Re Consultant capacity

## Date 4 December 2007

I have assessed the costs and revenues which will arise in the event of our commitments reaching 120% of remaining consultant capacity.

This assessment indicates that there would be a net saving of \$19,590 if we employed additional consultants, as opposed to paying bonuses to existing consultants. I would suggest that, as well as the financial implications, we also need to consider other factors, such as:

- Employing additional consultants will give us both greater flexibility to respond to customer demand, as well as increased capacity to offer additional services. This could lead to further growth.
- By employing additional consultants and maintaining the workload at the contracted level, there will be less pressure on individual consultants. This should help to maintain our high levels of service.
- If capacity reaches 120% of remaining capacity, and we do not employ additional consultants, the demands on consultants will be considerable. This could lead to a fall in the quality of our service, or consultants resigning. If sustained, it may lead to health problems for consultants. This would contravene our obligation to provide a safe and healthy working environment.
- If we cannot obtain sufficient work, this will have a detrimental effect on performance.
- Indeed, as we must make this decision in advance of obtaining contracts, we may create surplus capacity in the short term.
- Of course, we can only recruit if there are potential recruits available. We would need to be sure that staff with the
  appropriate skills and experience are available.

Taking all of the above into account, any final decision is likely to be most heavily influenced by our assessment of the market. If we are to believe that the 120% capacity level can be achieved – and maintained – the analysis above suggests that the financial benefit is enhanced by the non-financial benefits. However, if we have doubts about whether the 120% level can be achieved, it may be preferable to consider using a combination of existing and additional consultants, perhaps by employing fewer than required (for example 1 or 2 senior and 2 or 3 junior). Another alternative is to use freelance or part-time consultants.

	20
Maximum	5
Available	7
Memo format	
For financial conclusion, up to	2
1 mark for each valid point considered, to a maximum of	4
Mark allocation	

**5** (a) The overall purpose of performance measurement is to contribute to the managerial tasks of planning, making decisions and controlling. It is therefore an essential part of the control process, and seeks to assess the extent to which targets have been achieved and plans fulfilled. As such, it follows that before performance may be measured, a plan must have been prepared and targets must have been set and, in most situations, agreed with the manager who will be responsible for achieving the targets.

The purpose of performance measurement is to improve organisational performance. This should be achieved by a cycle of activities which commences with setting overall objectives and identifying the outcomes that will arise if these objectives are achieved. It is these outcomes which should be measured, and which therefore become the performance measures for the organisation. It goes without saying that to ensure that the performance measurement system is effective, the underlying reasons why certain outcomes were achieved and others were not achieved should be investigated. The results of such investigation should form the basis of both future targets and future operational plans.

The targets which an organisation seeks to achieve might be expressed in financial terms or non-financial terms. While financial performance measures are important, such measures cannot provide a comprehensive picture of performance. One of the main reasons for this is that such measures are often reported some time after the activity which they measure has taken place. Non-financial performance measures can often be reported a very short time after the actual performance, which provides managers with an opportunity to take corrective action. In addition, many financial measures are available externally (via the annual financial statements) while only those non-financial performance measures can be used to assess the performance of specific sectors of an organisation, in the main they are 'high level' measures, reporting on the outcome of a combination of activities. Non-financial measures, on the other hand can provide an overview of the performance of quite specific activities – for example the output of a specific machine for a specific shift.

Non-financial performance measures may be either quantitative (e.g. number of repeat customers) or qualitative (the level of satisfaction experienced by customers), but financial measures, by their nature, can only be quantitative.

For these reasons, an effective performance management system will invariably make use of both financial and non-financial measures of performance.

Mark allocation 1 mark per valid point to a maximum of For example: Part of control process Improve organisational performance Outcomes measured Reasons investigated Influences future targets and plans Financial not comprehensive Non financial are often immediate Financial are usually available externally/non-financial internal Non-financial more detailed Non-financial may be both quantitative and qualitative

6

Marks were also awarded for other valid points

(b) The fact that effective performance measurement will combine both financial and non-financial measures is often overlooked and leads to what is perhaps the most significant problem of performance measurement – the fact that it is possible to set too many targets. While this problem has long been recognised, it has become more acute in recent years due to the sheer volume of information that is available to most organisations. It is all too easy to measure and report what *can* be measured, and to neglect what *should* be measured. This has meant that the performance measurement system in many organisations does not actually contribute to improved performance, as managers find that it is difficult to identify the actions which will affect specific performance measures.

A key task for managers is therefore to distinguish between those actions which will have a direct effect on performance and those which will have less influence. The former are often referred to as 'critical success factors' (CSFs). There will usually be a relatively small number of CSFs in any organisation.

The importance of these is that they provide the focus which helps to avoid the problem discussed in the paragraph above.

Having identified the CSFs, it is important that managers consider how they will know if these are being achieved. The targets and measures which will report the extent to which CSFs are being achieved should form the basis of the performance measurement and reporting process. These targets and measures are usually referred to as key performance indicators (KPIs) and they will be a mixture of financial and non-financial measures.

Because CSFs are derived directly from the organisational objectives, and they are measured by the use of KPIs they contribute to the effectiveness of the performance measurement process by establishing a link between actions and performance.

## Mark allocation

Identification of problem(s) up to 2 marks Explanation of nature and contribution of CSFs up to 2 marks KPIs up to 2 marks

6

(c) In the case of a local government authority, non-financial measures will have particular significance as the overall organisational objective is not expressed in financial terms. Although financial measures cannot be totally ignored, it will be more important that the overall goal (increasing the number of tourists remaining in the region for two days or more) is achieved over the long term. It is therefore more important that the actions which are taken will contribute to this than it is to achieve short term financial goals, as we are not constrained to the same extent as commercial organisations by the need to report short term profits.

The following CSFs and KPIs are suggested:

CSF	KPI		
Increase awareness of tourism resources	<ul> <li>Number of hits on website</li> <li>Number of tour guide entries</li> </ul>		
Develop hospitality facilities in area	<ul> <li>Number of bed-nights available</li> <li>Number of all weather facilities</li> </ul>		
Create integrated transport links	<ul> <li>Total travel time between arrival at port and arrival at accommodation</li> <li>Road miles served by public transport as % of road miles in area</li> </ul>		
Visitor satisfaction	<ul> <li>Number of return visitors</li> <li>% of visitor experiences in 'satisfied' category or above</li> </ul>		
Mark allocation			
For explanation of importance of NFPIs, up to			
1 mark for each valid CSF and KPI identified	to a maximum of	8	
Available		11	
Maximum			8
			20

NB Marks were awarded for other valid CSFs and KPIs not included above.

6 (a) Although it is correct to say that the transfer price will represent income to one division and a cost to the other, and that the income and cost will cancel one another out, it is not correct to say that this will have no effect on profit. An effective transfer pricing system will encourage divisional managers to take appropriate decisions which will lead to overall company profit being maximised.

On the other hand an ineffective transfer pricing system will lead to divisional managers taking decisions which will maximise the profit for their own division, but will not maximise overall company profit.

This can arise because the basic premise of divisionalisation is that each division is autonomous. This basic premise will encourage managers to seek the best result for their division, irrespective of the effect on the rest of the company.

This means that an effective transfer pricing system is likely to be designed (and may even be imposed) by head office. As a result, the concept of divisional autonomy is somewhat undermined. There is therefore a tension between the concept of divisional autonomy and head office control.

The extent to which managers will be satisfied with a transfer pricing system, and therefore managerial behaviour, is likely to be influenced by two factors. One of these will be the extent to which divisional managers perceive that their decisions are constrained by head office involvement (more involvement = less autonomy = less satisfaction). The second will be the extent to which managers feel that the transfer price provides adequate reward for the effort and resources which have been utilised.

Consequently, the transfer pricing system will have a significant influence on the motivation of divisional managers and therefore divisional and corporate performance. The greater the extent to which the transfer pricing system can achieve a balance between maximising overall company profits and maintaining divisional autonomy, the more successful it will be.

The transfer price should:

provide an adequate reward to the supplying division to compensate for the resources used; provide the receiving division with access to resources at a reasonable cost; allow divisional performance to be assessed on a basis which is commercial; motivate divisional managers to achieve corporate goals; maximise overall company profits.

Mark allocation:

1 mark for each valid point, for example:

Can affect overall profit

Key objective is to maximise overall profit

Self interest will influence decisions

Need for HO involvement will reduce divisional autonomy

Managers satisfaction will influence behaviour

	TP should provide adequate supply resources facilitate perform	e reward at reasonable cost ance measurement			
	to a maximum of				5
(b)	Market-based per unit Selling price of final product <i>less:</i> Margin (25%) Processing cost	<b>\$</b> 19·50 12·50	<b>\$</b> 78·00 32·00		
	Selling price/Transfer price		46.00		1
	Capacity 450,000 hours $\div 2^{1/2}$	$p_2 = 180,000$ units			1
	Revenue 180,000 units at \$46·00		\$000	\$000 8,280	1
	Costs Variable cost 180,000 units at \$2 Fixed costs Profit	26-80	4,824	7,524	1
	Target profit \$8,280,000 $\times$ 5%			414	1
	Excess			342	Ĩ
	Bonus at 4% = \$13,680			0.12	1
	<b>Cost-based</b> per unit Variable cost Mark up 70%	<b>\$</b> 26·80 18·76			
	Transfer price	45.56			1
	Revenue External sales 60,000 units at \$46.00 Transfers 120,000 units at \$45.56		\$000 2,760·0 5,467·2	\$000 8,227·20	1
	Costs (as market-based)			7,524.00	1
	Profit			703.20	
	Target profit \$8,227,200 × 5%			411.36	1
	Excess	. ¢11.C74		291.84	1
	DUTIUS At $4\% = $11,073.00$ , SA)	ΦΙΙ,0/4			$\frac{1}{11}$

## (c) Recommended basis

The fact that an external customer is the catalyst for establishing divisions and therefore transfer pricing means that the transfer price should be based on market price. The emergence of the partner creates a market where it appears none previously existed. As the market price will be based on negotiations with an external partner, it will provide a degree of objectivity. This will mean that the transfer price will be perceived as equitable.

In market based systems, the transfer price may be set below the external sales price. This is to reflect the fact that certain costs (e.g. advertising, packaging, distribution) are not incurred on internal transfers.

Marydown has been approached by the partner, so it can be argued that most of the possible savings considered above in respect of market based transfer prices do not apply. For example, as there has not been any external market for the component in the past, there will not be any advertising costs associated with the component. If there will be any packaging and distribution costs to be incurred in connection with sales to the partner, it should be possible to ensure that the price negotiated is calculated to take account of such costs. In that way, it will be possible to arrive at a final price for the component itself. This should be the transfer price, as it will be an objective, market based price, and will exclude those elements which typically need to be 'stripped out' from the market price to arrive at the transfer price.

#### Mark allocation:

1 mark for each valid point to a maximum of

4

20