

JUNE 2002

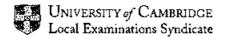
GCE ADVANCED SUBSIDIARY AND ADVANCED LEVEL

MARK SCHEME

A STATE OF THE PROPERTY OF THE

SYLLABUS/COMPONENT: 9706/4

ACCOUNTING



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Question 1

Oitar plc

- (a) (i) interest cover: 1000/250 = 4 times (2)
 - (ii) dividend cover: 750 120/350 = 1.8 times (2)
 - (iii) earnings per share: 63 000 000/400 000 = \$1.575(2) (1 if \$ organ suite)
 - (iv) price earnings ratio: 30/1.895 = 19 (2)
 - (v) dividend yield: $8.75 \times 10^{10} = 2.9\%$ (j)
 - (vi) gearing: (debentures = $$250k \times \frac{100}{12.5} = $2000k$) (1)

$$2\,000\,000 + 1\,500\,000 / 4\,000\,000 + 900\,000 + 3\,500\,000 \times 100 = 41.7\%$$

alternatively

2000000 + 1500000 / 4000000 + 900000 = 71.4%

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- (ii) (i) Interest cover shows how many times interest payments are covered by operating profit (1) It is an indication of the risk that future profits may be insufficient to cover interest payments. (i) The risk that interest payments might turn a small profit into a loss; (i) that future dividends might be at risk. (j)
 - (ii) Dividend cover shows how many times the ordinary dividend is covered by profit available for the dividend. (1) A low cover might indicate that future dividends are at risk if profitability declines.(1) Dividend cover may reflect the directors' dividend policy.(1) A high cover usually indicates a conservative policy.(1)
 - (iii) Earnings per share shows how much profit after tax and preference dividends is attributable to each ordinary share (1) All profits after tax and preference dividends belong to the ordinary shareholders() It is a more informative measure of ordinary shareholders' fortunes than dividend cover. (1) Investors usually regard EPS as a convenient measure of the success of a company. (1)
 - (iv) Price earnings ratio relates the market price of a share to the earnings per share.(1) It may be regarded as the number of years' earnings that investors are prepared to pay for in the purchase price of a company's shares. (1) The higher the PER, the greater the confidence of investors in the ability of the company to maintain the EPS. (1)
 - (v) Dividend yield expresses the dividend as a percentage of the market price of a share. (1) This is should be of more interest to investors than dividend expressed as a percentage of the nominal value of each share, or the number of cents per share. (1)
 - (vi) Gearing is calculated as fixed cost capital/equity plus fixed cost capital includes long term loans (usually debentures) and preference share capital, and equity includes ordinary share capital plus all reserves.. (1)
 - OR if the alternative answer is given to (a)(vi): Fixed cost capital/equity

 Gearing is expressed as a percentage. (1)

 Calculated in this way, 50 % is regarded as neutral gearing, > 50% is

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	(b) (i) Interest cover has fallen by 27%(!) It is still satisfactory but if it falls too far the shareholders' dividends may be at risk. (!) Dividend cover has fallen from 2.5 x to 1.8x(!) If profits are not at least maintained, the shareholders' dividends could be at risk. (!) Price earnings ratio has declined from 22 to 19(!) This seems to indicate that investors are less confident that the company will maintain its present profitability in future. (!)						
Becombris	(ii)	proportion of loan capita Other evidence: Investigate prior years (b	Roce(i)			ice i wiew,	<i>"</i>
	. ~	Check inter-firm compar	issas if magnible (1	`	. ,		
margin ru	a a crecible	teration of					
untess ex		See directors' reports for					
Treme Hu	Grave Grahes	company's performances	(bosinous () ram	e trating et	c(1)		
Campon	caj	See the auditors' report to opinions as to company's upon continuation of bar finance.	going concern' state	tus,(i) depe	ndence		<u> </u>
	QUEST	ON 2				-	
	(a) (i)		Joloss plc				
		Balance Sheet immediate	·		/1ay 2002 \$*00 0:	g.	
_	_	Congible fixed assets (6 Current assets Stock (3) Debtors (5)	30 -150)	!	500	(1) (Total corr by out it	(it not upted transour em(s))
		- 11-					
		Creditors: amounts falling within one y		,	<u>50</u> 55 0	YTOtal in	40g-11
		Ordinary shares of \$0.55	(41 if not an	ويع رسال منا	<u>550</u> عمعه	(1) Frank o	70 10
		e net asset value of Joloss	plc's shares before	capital redu	ction was		-
	Th Re to Th so If t ove ba	2-450/1000 = \$0.55. (1) 2-capital reduction merely 3-duction in the nominal val- 4-duction in th	ue of each share do o receive dividends the profits forecast ted the scheme, the spected profits would to enable dividend	es not entai equal to \$0. by the direc y would hav d have elim	l any furth 25 per sha ctors. (1) e had to w inated the	er loss are as vait for	

(Other points may be acceptable)

(Maximum Smarks)

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(b) (i)				
Workings	Milligan	Bentine]
_	70 - (50 - 25) = 45	ω		
Net receipts \$000 Year 1	/12	72 - (60 - 33) = 45	o-f	44.5
	$2 \ 80 - (60 - 25) = 45$	84 - (70 - 33) = 47	5×	
		84 - (70 - 33) = 47	8.7	46.5
	3 90 - (65 - 25) = 50	90 - (75 - 33) = 48		4.7.5
	/ 5	(N) 48	₽T	1 ' '
	4 90 - (70 - 25) = 45	100 - (80 - 33) = 53	01	52.5
	(2 2)	111 (00 00)		

Note: The first mark in each pair is given for the correct statement of receipts less costs; the second mark is for the depreciation adjustment. If any other adjustment is made (e.g. for interest payable) the first mark should not be awarded.

Answer

		Milligan		Bentine	
		Exp/receipts	NPV	Exp/receipts	NPV
Factor (10%)	Year	\$	\$	\$	\$
1	0	(100 000)	(100 000)	(130 000)	(130 000)
0.909	1	45 000 (2)	40 905	45 000 (2)	40 905
0.826	2	45 000 (2)	37 170	47 000 (25)	38 822
0.751	3	45 000 (2) 50 000 (2)	37 550	48 000 (25)	36 048
0.683	4	45 000 (2)	<u>30 735</u>	53 000 TJ	<u> 36 199</u>
		- /	46 360 (1)	ر	21 974 (I)
(ii) Choose Milligan (I) Greater NPV (I)				0.	

(iii) IRR for Milligan

he correct.

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Questio	n 3				
-	Tontaws				
	(a) (i) Budgeted manufacturing, trading ar	-	ss statem	ent for	•
	the production of 250 (OO Tontaws			
	Direct materials (250 000 x 2 x \$4)	2 000 000	n (17	Belle	rible.
	Direct labour (250 000 x 2/3 x \$18)	3 000 000		C-10 E 0	man de Historia
	Direct production overheads (166 666.67:			(L	utible resentation west)
	Total variable expenses	6 000 000		(April	var)
	Indirect fixed overheads (166 666.67 x \$2			APD	mash.
	Cost of production Factory profit (20% of \$9 500 000)	9 500 000 <u>米 1 900 00</u> 0	_		
	Transferred to trading statement	11 400 00	-		2006m (1)
	No time also so the	-et	_	Acces	5.200
			_ ~ ~.		New brotis
	Gross profit shown +	11 400 000 14 600 000		فرط	adita(1)
				14 1/2	srual
	Net profit on trading	7 100 000		allog	ماهمار معود
	Add factory profit	x <u>1 900 000</u>	ુ (છે	not	(e) 10
	Total net profit	<u>9 000 00</u>	<u>D</u>	HUR	
	ntribution per unit 26 000 000 - 6 000 000 / _{250 000} :				
Br	eak even point: $3500000 + 7500000/80 = 13750$	00 units (1)	6r \$ 11	4 300 B	9 O
Ma	rgin of safety ²⁵⁰ 000 - 137 500 / 250 000 x 100 = 4	5% () (huseba	percen	hage Z
(b) (i)	Flexed budget (based on 256	000 units)			
		\$	\$		
	es (256 000 x \$104)	20	6 624 00	0(1)	
	ct materials (256 000 x 8) ct labour (256 000 x 2/3 x \$18)	2 048 000 () 3 072 000 ()			
	ect o'heads (variable) $(256\ 000\ x\ 2/3\ x\ $6)$	1 024 000 ((
	al variable expenses	6 144 000 .	•		
	ed overheads (3 500 000 + 7 500 000)	11 000 006			F
Net	profit	-	9 480 00	<u>20</u>	
(ii) Act	ual	\$	\$		
	es (256 000 x \$107.5)	~	27 520 0	(1) 000	
	ct materials	2 090 000 (1))	C /	
	ct labour	3 656 250 (1)	•		
	ct o'heads (variable) (256 000 x 2/3 x \$6) al variable expenses	1 024 000 (1) 6 770 250)		
		10 850 000(l)	17 620 2	250	
	profit		9 899		5
		****		_	
	vantity variance \$(9 480 000 - 9 000 000) ales volume: 6 000 x \$104	\$480 000 (F) \$624 000 (F)	\mathfrak{R}	liet	ALMON A
	ales price 256 000 x \$3.50	\$896 000 (F)	8	100	مرمول الم
	irect materials usage (512 000 - 550 000)\$			A leather	THE PARTY
	firect materials price \$(4.00 - 3.80)x550 00			Much	wasts.
	lirect labour efficiency (170 666.67 - 187 5				7
(VII) O	lirect labour rate \$(18.00 - 19.50)x 187 50	J \$281.2	250 (A) (j	M. Acm	1
(d) Cont	tribution per unit $\frac{20.749}{750} = 81.05$	(F)		יים אינענאי וויקריים	morded
	k even point = $^{12950000}/81.05$ = 159778 unit			سسحر	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
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(e) Reconciliation of budgeted profit with actual profit

	ър _	
Budgeted profit	9 000 000 (1)	(hustbeasin(a)(i) of
Add Quantity variance	480 000 (1))
Sales price variance	896 000 (þ	
Direct materials price variance	110 000 (ນັ	·
Reduction in Selling and administrat	ion <u> 300_000</u> (1	\
	10 786 000	,
Deduct Direct materials usage variance	(152 000) (1	1
Direct labour efficiency variance	(303 000) ໄປ	.5
rate variance	(281 250) (1	i)
Fixed production overhead	(150,000) (v	· -
Actual profit	9 899 750	Í