

# Mark Scheme (Results)

# January 2015

# International A Level Accounting

WACO2



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WAC0201 – January 2015  
Mark scheme  
Q1.  
(a)  
(i) Gearing ratio = 
$$\frac{\text{Prior charge capital}}{\text{Capital employed}} \times 100 \sqrt{2} \text{ arg} \times 100} = 67.4\% \sqrt{2}$$
  
 $= \frac{1.000\,000 + 4\,000\,000 + 5\,500\,000 + 5\,000\,000 + 78\,000 \sqrt{2} \text{ any } 3 \sqrt{2} \text{ next } 2}$   
Other formulae for gearing are acceptable 6 marks  
(ii) Return on Capital employed =  $\frac{\text{Net profit before interest and tax}}{\text{Capital employed}} \times 100 \sqrt{2}$   
 $= \frac{\pounds 650\,000 \sqrt{2} \times 100}{15\,578\,000 \sqrt{2}} \times 100 = 4.17\% \sqrt{2}$   
 $\frac{4}{\text{ marks}}$   
(iii) Earnings per ordinary share =  $\frac{\text{Net profit after interest and tax less preference dividend}}{15\,80000 \sqrt{2}} \sqrt{2} = 0.4 \text{ pence per share } \sqrt{2}$   
 $\frac{4}{0.4p} \sqrt{-2} = 185 \text{ times o/f } \sqrt{2}$   
(iv) Price/carnings ratio =  $\frac{Market price of ordinary share}{2} = \frac{74 \text{ p} \sqrt{-2}}{0.4p \text{ o/f } \sqrt{2}} = 1.85 \text{ times o/f } \sqrt{2}$   
(v) Dividend paid per share =  $\frac{10\,000 \text{ odd}}{5\,000000 \sqrt{2}} = 5.6 \text{ pence per share } \sqrt{2}$   
 $\frac{4\,\text{ marks}}{3000000 \sqrt{2}} = \frac{5.6 \text{ pence per share } \sqrt{2}}{3000000 \sqrt{2}} = \frac{2280\,000}{2280\,000 \sqrt{2}} = 0.07 \text{ times } \sqrt{2}$ 

(vii) Dividend yield  

$$= \frac{\text{Ordinary dividend per share}}{\text{Market price of ordinary share}} \times 100 \quad \sqrt{}$$

$$= \frac{5.6 \text{ p o/f }}{74 \text{ p }} \sqrt{} \times 100 = 7.57 \% \text{ o/f } \sqrt{}$$

4 marks

# (b) **Own figure rule applies**

### **Strengths**

Net profit before interest and tax is a good figure.  $\sqrt{}$ 

ROCE could be said to be quite good (in present financial situation)  $\sqrt{}$  possibly more than any returns in bank deposit accounts.  $\sqrt{}$ 

Price/earnings very high (which means market has confidence in company)  $\sqrt{}$  which may mean shareholders will not sell shares held.  $\sqrt{}$ 

Dividend per share is high (which keeps shareholders happy)  $\sqrt{a}$  better return than many other investments.  $\sqrt{a}$ 

Dividend yield is high (which keeps shareholders happy)  $\sqrt{}$  they get a better return than many other investments.  $\sqrt{}$ 

#### Weaknesses

Net profit after interest and tax is **much** lower than before interest and tax  $\sqrt{}$  because there are very high interest payments (of 530 000)  $\sqrt{}$  and tax payments (of 30 000).  $\sqrt{}$ 

ROCE could be said to be quite poor  $\sqrt{\text{possibly less than any returns in bank deposit accounts. }} \sqrt{\text{Gearing ratio is high }} \sqrt{\text{which means risk is high }} \sqrt{\text{Appear to have been borrowing fairly regularly }} \sqrt{\text{taking out a debenture in 2009 and a bank loan in 2014. }} \sqrt{\text{Seare the seare the search of the search$ 

EPS is very low, so poor return for investors in ordinary shares.  $\checkmark$ 

Price/earnings very high (so may discourage future investors in ordinary shares)  $\sqrt{a}$  as it would take a very long time to get money back/recover investment made.  $\sqrt{a}$ 

Dividend per share is high (which means funds are leaving the company)  $\sqrt{}$  which may give future problems eg repaying loans  $\sqrt{}$  future expansion etc.  $\sqrt{}$ 

Dividend cover is very low  $\sqrt{}$ , meaning company cannot afford to pay this level of dividend.  $\sqrt{}$ Dividend yield is high (which means company is paying out more than it needs to)  $\sqrt{}$  probably more than many other companies.  $\sqrt{}$ 

Maximum of 8 marks for arguing one side

<u>Conclusion</u> 2 marks Company has some serious problems  $\sqrt{\sqrt{}}$ OR profitability is a problem  $\sqrt{}$  and gearing  $\sqrt{}$ 

(c) <u>Possible answer</u>

(i) Reduce gearing ratio by issuing more ordinary shares  $\sqrt{it}$  is possible to issue £5 m more shares  $\sqrt{(on existing authorised share capital)}$ 

Payback loans  $\sqrt{}$  and debentures  $\sqrt{}$  and preference shares  $\sqrt{}$  (any 2)

#### 2 marks

(ii) <u>Possible answers</u> Family could keep control if they bought the new shares  $\sqrt{Or}$  it may result in outside expertise coming to the company if outside parties buy shares  $\sqrt{Could}$  use share issue to pay off bank loan  $\sqrt{This}$  would reduce interest payments  $\sqrt{V}$ Paying back loans means a large cash outflow  $\sqrt{V}$  which worsens liquidity  $\sqrt{V}$ 

#### 2 marks

#### (d) Possible answers

Improve ROCE by making higher profits  $\sqrt{}$  by reducing costs or increasing revenue.  $\sqrt{}$ 

Improve EPS by making higher profits.  $\sqrt{}$  but difficult if a new share issue has been made.  $\sqrt{}$ 

Increase dividend per share by increasing profits  $\sqrt{}$  and/or redeeming ordinary shares  $\sqrt{}$  OR Reduce dividend per share  $\sqrt{}$  to retain funds in company to pay interest etc.  $\sqrt{}$ 

Improve dividend cover by paying smaller dividends  $\sqrt{100}$  or making higher profits.  $\sqrt{100}$ 

Keep dividend yield high by making healthy profits  $\sqrt{}$  to maintain confidence of market in company shares.  $\sqrt{}$ 

#### 6 marks

Total 52 marks

<u>Q2a</u>			<u>W1 Cost of Sales</u> Direct Materials	843216		
	-				$\checkmark$	
Statement of Comprehensive Income for			Less closing Inventory	(4897)	both	
Gulf Furnishings plc for y/e 31st December 2014 $$			Less Discount Received	(41753)		
			Factory Depreciation	47000		9 x
Revenue	4482800	$\checkmark$	Machinery Depreciation	277500	$\checkmark$	J X √
			Factory Fuel	36441	$\checkmark$	
Cost of sales	(2276824)	√ o/f	Factory Power	211948	$\checkmark$	
			Machinery maintenance	27542	$\checkmark$	
Gross profit	2205976	√ o/f	Factory staff	828750		
			Production Monogor	55000	√ both	
			Production Manager Stock Adjustment Finished	55000	DOUT	
Other Income	150025	√ o/f	Goods	(3923)	$\checkmark$	
				2276824		
Distribution costs	(1349333)	√ o/f				
			W2 Distribution Costs			
Administrative expenses	(604114)	√ o/f	Commission on sales	67242	$\checkmark$	
			Sales Manager	50000		
T' service and	(55400)	<b>. /</b>	Termenent Managan	45000	√ hath	
Financial cost	(55192)	√ o/f	Transport Manager	45000	both	8 x
			Fuel	182205	$\checkmark$	<b>0 ∧</b>
Profit on ordinary activities before tax	347362	√ o/f	Motor lorries depreciation	112800		
	-	• -	Advertising and Marketing	155043		
Corporation tax	(55000)	$\checkmark$	Shop premises depreciation	123750		
	(000000)	,	Running cost of vehicles	88543		
Profit on ordinary activities after		. ,			,	
tax	292362	√o/f√C	Shop staff wages	435790	.1	
			Delivery staff wages	88960	√ both	
			Bonnony otali insiger	1349333		
	12 x √			1010000		
			W3Administrative Expenses			
W5 Financial cost		2 x √	Bad Debts Written Off	12255		
Interest on bank loan	48000	$\sqrt{1}$	Finance manager	59000		7 x √
Interest on bank balance	7192		Discount allowed	16548		
	55192	,	Hire of photocopiers	3120		
			Accountancy staff wages	212870	1	
			Office staff wages	202130	√ both	
<u>TOTAL 40 marks</u>			Office premises rent	45204	√	
			Office power	52987	$\checkmark$	
			·	604114		
			W4 Other Income			
			Canteen sales	122767		
			Dividends received	27258		2 x √
				150025		

#### (b) Answers could include

IAS1 states additional line items in the Statement of comprehensive income, may be required when necessary  $\sqrt{1}$  to explain elements of financial performance.  $\sqrt{1}$ 

Treatment is required by law  $\sqrt{(\text{Companies Act validates IAS})}$ 

When items are material  $\sqrt{}$  they should be disclosed separately either on the face of the accounts, or in the notes.  $\sqrt{}$ 

The items need to be disclosed by virtue of their size,  $\sqrt{}$  or incidence  $\sqrt{}$ 

#### Benefits

This will benefit users of accounts because they can see that the expense or revenue  $\sqrt{}$  of the Exceptional Item will not be expected to be repeated regularly in the future.  $\sqrt{\sqrt{}}$ 

Although in the normal line of business  $\sqrt{}$  the Exceptional Item should be disclosed because of its size.  $\sqrt{}$ 

This allows the reader to predict more accurately  $\sqrt{1}$  future expected performance.

This may help future potential investors / shareholders  $\sqrt{\text{trade payables } \sqrt{\text{banks } \sqrt{(\text{maximum of 2})}}}$  with decision making.  $\sqrt{}$ 

Should be beneficial if required to be shown by IAS / FRS $\sqrt{}$ 

#### Disadvantages

Adds more figures and details to the accounts  $\sqrt{}$  so makes them more difficult to understand.  $\sqrt{}$ 

More time and money spent producing accounts  $\sqrt{}$ 

Competitors may gain an advantage if they see this detail in the accounts.  $\sqrt{}$ 

Maximum for arguing only one side 8 x  $\sqrt{}$  = 4 marks

#### Evaluation

Should conclude that it is beneficial to disclose Exceptional Items.  $\sqrt{\sqrt{}}$ 

#### 12 marks

#### **TOTAL 52 Marks**

(a) (i) Standard labour cost =  $(5 \times 40 \times \pounds 5.90) \sqrt{=1.180} \sqrt{-1.180} \sqrt{-1.$ 

(ii) Actual labour cost =  $(200 \text{ x } \pm 5.90) \sqrt{+} (7 \text{ x } \pm 8.10) \sqrt{-} \pm 1.180 + \pm 56.70 = \pm 1.236.70 \sqrt{(3)}$ 

#### (iii) Labour efficiency variance = (Actual hours – Standard hours) x Standard rate

=  $(207 \sqrt{-200} \sqrt{)} \times 5.90 \sqrt{-200} = \text{\pounds}41.30 \text{ Adv }\sqrt{-200} \sqrt{-200} \sqrt{-20$ 

(iv) Labour rate variance = (Actual rate - standard rate) x Actual hours

$$= (\underbrace{1236.70}_{207} \sqrt{1 - \pounds 5.90} \sqrt{1 \times 207} \sqrt{1 \times 207}$$
$$= (\pounds 5.974 - \pounds 5.90) \times 207 = \pounds 15.32 \ (\pounds 15.40) \text{ Adv } \sqrt{14}$$

(v) Total labour variance = Actual labour cost - Standard labour cost

= (£1 236.70 - £1 180) 
$$\sqrt{o/f}$$
 = £56.70 Adv  $\sqrt{o/f}$ 

O/f applies if a(iii) and a(iv) are added together

# (b) Actual purchase price of material per square metre = $\frac{\pounds 604.80}{2\,160\,\sqrt{100}} \sqrt{(OR \frac{\pounds 201.60}{720\,\sqrt{100}})} = \pounds 0.28\,\sqrt{(3)}$

(c)

#### (iii) Material usage variance = (Actual usage - Standard usage) x Standard price

$$= ((220 + 720 + 720 + 720 - 460) - 1800) \times \text{ \pm}0.26$$

= 
$$(1\ 920\ \sqrt{-1800}\ \sqrt{}) \ x \ \pounds 0.26\ \sqrt{=} \ \pounds 31.20 \ Adv\ \sqrt{}$$
 (4)

= 
$$(\pounds 0.28 \sqrt{0/f} - \pounds 0.26 \sqrt{)} \times 1920 \sqrt{=} \pounds 38.40 \text{ Adv} \sqrt{}$$
 (4)

(v) Material cost variance = Actual material cost - Standard material cost

$$= (\pounds 537.60 - \pounds 468) \sqrt{0/f} = \pounds 69.60 \text{ Adverse } \sqrt{0/f}$$

O/f applies if c(iii) and c(iv) are added

(2)

(2)

(2)

(**d**) (i) Total standard cost = standard labour + standard material

 $= (\pounds 1 \ 180 \ + \ \pounds 468) \sqrt{0/f} = \pounds 1 \ 648 \sqrt{10}$ O/f applies if a(i) and c(ii) are added (2)

(ii) Total actual cost = actual labour + actual material

$$= (\pounds 1\ 236.70 + \pounds 537.60) \sqrt{0/f} = \pounds 1\ 774.30 \sqrt{0/f}$$

O/f applies if a(ii) and c(i) are added together

(e) Maximum of three marks for answers concerning individuals

Susmita is not efficient, and needs overtime to fulfil quota so suggest reduce overtime.  $\sqrt{}$ Zahir is inefficient – does overtime and still cannot meet quota, suggest reduce overtime.  $\sqrt{1}$ Mohon is inefficient – does not meet target, do not give overtime to him.  $\sqrt{}$ Chadni is very efficient, surpasses quota in normal time, suggest give overtime to her.  $\sqrt{}$ Rubia meets deadline so is efficient – can be given overtime  $\sqrt{}$ 

Maximum of 2 marks if candidate argues in general terms, not mentioning individual workers. Eg no or little overtime is permitted  $\sqrt{}$  which may make all workers more efficient  $\sqrt{}$ 

(3)

#### **(f)**

#### **Performed poorly**

Variances are adverse  $\sqrt{1}$  maximum of 2 ticks for reasons eg inefficient labour  $\sqrt{1}$  or expensive material  $\sqrt{}$ 

Labour efficiency – could improve training,  $\sqrt{}$  especially to Mohon, Susmita, and Zahir. Any 2.  $\sqrt{}$ Labour rate – perhaps pay overtime at standard rate,  $\sqrt{}$  especially if 120 target not met  $\sqrt{}$ Material usage – better training of staff,  $\sqrt{}$  or buy better quality material  $\sqrt{}$  or new machinery.  $\sqrt{}$ Material price – look for alternative suppliers  $\sqrt{100}$  or negotiate better prices  $\sqrt{100}$  or pay quickly to ensure discounts.  $\sqrt{}$ 

#### **Performed well**

Section may be efficient,  $\sqrt{1}$  it is just that the standards set are unrealistic.  $\sqrt{1}$  maybe they are not reviewed regularly  $\sqrt{1}$  in which case review and change standards  $\sqrt{1}$ Some workers are efficient and meet or surpass targets  $\sqrt{10}$  ie Rubia and Chadni.  $\sqrt{10}$ Overall, the department has met its production target.  $\sqrt{}$ 

Maximum of 8 marks if argued one side only.

Conclusion 2 marks Blouse section has probably performed poorly.  $\sqrt{\sqrt{1+1}}$ 

(12)

**Total 52 marks** 

(2)

#### Q4.

(a) (i) Goodwill is a sum paid in excess of the fair / agreed value  $\sqrt{}$  of net assets acquired when purchasing a business  $\sqrt{}$ .

#### 2 marks

(ii) Any two from Existing customer base  $\sqrt{-}$  Supply channels set up  $\sqrt{-}$  Suitable location  $\sqrt{-}$  Skilled workers  $\sqrt{-}$ Reputation of business  $\sqrt{}$ Brand awareness  $\sqrt{}$  Loyal staff  $\sqrt{}$  Profitable business  $\sqrt{}$ 

2 marks

(b)			
Calculation of Purchase Price			
Property, plant and equipment	$+1\ 200\ 000\sqrt{-165}\ 000\sqrt{-352}\ 000\sqrt{-352}$	79 778 000	$\checkmark$
Intangibles		525 000	
Inventories		863 000	$\sqrt{both}$
Trade and Other Receivables	- 56 000	504 000	
Bank Loan		(10 000 000)	
Trade and Other Payables		(230 000)	$\sqrt{both}$
Current tax payable		(210 000)	$\checkmark$
Goodwill		4 000 000	$\checkmark$
Purchase price		75 230 000	$\sqrt{0/f}$
		10	marks

10 marks

(c)

Shares issued =  $\frac{75\ 230\ 000}{\pounds 2.50\ \sqrt{\sqrt{}}}$  o/f = 30\ 092\ 000\ shares  $\sqrt{0}$ /f  $\pm 2.50\ \sqrt{\sqrt{}}$ 

4 marks

(**d**)

	Acquisition account								
Jan1	Property, Plant, +	79 778 000		Jan 1	Bank loan	10 000 000			
	Equipment		both				both		
	Intangibles	525 000	$\sqrt{0/f}$		Trade Payables	230 000	$\sqrt{0/f}$		
	Inventories	863 000	both		Current Tax payable	210 000	all 3		
	Trade Receivables	504 000	$\sqrt{0/f}$		Purchase price				
	Goodwill	4 000 000	$\sqrt{0/f}$		£1 Ordinary shares	30 092 000	o/f		
					Share premium	<u>45 138 000</u>	$\sqrt{0/f}$		
		<u>85 670 000</u>				85 670 000	$\sqrt{0/f}$		

**(e)** 

For financing using shares Does not require any use of cash  $\sqrt{}$  which would be a drain on liquid resources.  $\sqrt{}$ If the market thinks the deal is a good one  $\sqrt{}$  the value of all shares in buying company will rise,  $\sqrt{}$ keeping shareholders happy.  $\sqrt{}$ Improves gearing ratio  $\sqrt{}$ No need to payback shareholders  $\sqrt{}$ No capital repayment required unlike loans  $\sqrt{}$ Dividends only need to be paid when profits are healthy  $\sqrt{}$  unlike interest payments on loans that must take place  $\sqrt{}$ No need to offer collateral  $\sqrt{}$ 

If the market thinks the deal is a bad one  $\sqrt{}$  the value of all shares in buying company will fall,  $\sqrt{}$  making shareholders unhappy.  $\sqrt{}$ 

Memorandum of Association  $\sqrt{}$  may mean it is not possible to issue more shares,  $\sqrt{}$  or may need to get approval from Stock Exchange Council  $\sqrt{}$  to alter Memorandum and issue more shares.  $\sqrt{}$  Number of shareholders in buyer rises  $\sqrt{}$  so dilution of powers of existing shareholders.  $\sqrt{}$  More dividends will be paid to a greater number of shareholders  $\sqrt{}$  which may result in lower dividends per share  $\sqrt{}$ 

Issuing of shares results in extra costs etc  $\sqrt{}$ 

Maximum of 4 marks for arguing one side only <u>Conclusion</u> – 2 marks Financing purchase of another company is good/ not good idea.

8 marks Total 32 marks Q5. (a) Fixed Costs - per year Variable costs per unit (0.25 + 0.02 + 0.16 + 0.40)  $\sqrt{}$ Total £0.83 per unit  $\sqrt{}$ £9 300 Rent Depreciation £2 800  $\sqrt{}$  both Electricity £3 740 Insurance £1 420  $\sqrt{\text{both}}$ Contribution per unit £12 000 Manager £2 700  $\sqrt{\text{both}}$  $(\pounds 1.30 - \pounds 0.83 \text{ o/f}) \sqrt{=} \pounds 0.47 \sqrt{\text{o/f}}$ Loan £31 960 √ o/f Total FC  $\frac{\text{\pounds}31\ 960}{\text{\pounds}0.47\ \text{o/f}} \text{ o/f } \sqrt{= 68\ 000 \text{ ice creams o/f}} \sqrt{}$ Break Even Point = 11 marks Margin of safety =  $184\ 800\ \sqrt{-68\ 000\ \sqrt{o/f}} = 116\ 800\ \text{units}\ \sqrt{o/f}$ 3 marks (b) (c) Profit for 2014 Sales = 1400 x 12 x 11 = 184 800 units  $\sqrt{}$ Sales revenue =  $184\ 800\ x\ 1.30\ =\ \pounds 240\ 240\ \sqrt{}$ Less VC = 184 800 x 0.83 o/f =  $\pm 153 384 \sqrt{o/f}$ Less FC =  $\pounds 31 960 \sqrt{o/f}$ Profit =  $\pounds 54\ 896\ \sqrt{o/f}$ 5 marks New profit =  $\pounds 54\ 896\ x\ 1.05\ =\ \pounds 57\ 640.80\ o/f\ \sqrt{}$ (d) Increase in profit = £2 744.80 o/f  $\sqrt{}$ Increase in rent = £25 x 12 = £300  $\sqrt{}$ So managers pay must fall by £3 044.80 o/f  $\sqrt{}$ 

So new pay must be  $\pounds 12\ 000 - \pounds 3\ 044.80 = \pounds 8\ 955.20\ o/f \sqrt{5}$  marks

#### (e) If moved to the variable rate For

Business has profit target  $\sqrt{}$  and has to take action to achieve these targets.  $\sqrt{}$ 

May not possible to decrease other costs,  $\sqrt{}$  especially if fixed eg loan repayment, rent etc  $\sqrt{}$ May not be possible to increase selling price to increase profit,  $\sqrt{}$  as will result in reduced sales  $\sqrt{}$ Manager may be motivated and improve performance / increase output  $\sqrt{}$  eg train staff better to increase sales  $\sqrt{}$  which may result in increased market share  $\sqrt{}$  also in higher profits for business  $\sqrt{}$  and higher pay for the manager  $\sqrt{}$ 

## Against

Manager is concerned only with output so quality may suffer  $\sqrt{}$  and there may be more accidents  $\sqrt{}$  and manager may put workers under more pressure which demotivates  $\sqrt{}$ Budgeting for the managers salary maybe more difficult  $\sqrt{}$  due to fluctuations in sales and output  $\sqrt{}$  A rise in variable costs may raise the break even point  $\sqrt{}$  (but remember fixed costs will rise  $\sqrt{}$ )

# If stays on the fixed rate.

## For

Managers are professionals and are usually paid a salary  $\sqrt{}$  and changing to payment by linking to production may demotivate  $\sqrt{}$ 

## Against

Manager will be de-motivated  $\sqrt{}$  if forced to take pay cut  $\sqrt{}$ This is likely to effect running of the business  $\sqrt{}$  in a negative way  $\sqrt{}$ 

Could try to reduce other costs instead  $\sqrt{\text{eg}}$  shop around for lower insurance.  $\sqrt{\text{A}}$  reduction in fixed costs may lower the break even point  $\sqrt{\text{(but remember variable costs will rise})}$ 

Maximum of 4 ticks for arguing one side – for or against variable rate/fixed rate.

# Conclusion - Two $\sqrt{\sqrt{}}$

It is a good/bad idea to move to variable rate.

8 marks Total 32 marks

Q	6

#### 6a

<u>6a</u>							
<u>Sales</u>	Users	Charge					
Year 1	125000	13500000	$\checkmark$				
Year 2	225000	24300000	$\checkmark$				
Year 3	275000	29700000	$\checkmark$				
Year 4	325000	35100000	$\checkmark$				
Year 5	375000	40500000					
Bunning costs			Connoctro		Other	Total	
Running costs	405000	50	<u>Connectns</u>				1
Year 1	125000	50	6250000		5000000	11250000	V
Year 2	100000	50	5000000	√(2)	11000000	16000000	
Year 3	50000	50	2500000		14000000	16500000	
Year 4	50000	50	2500000		16000000	18500000	$\checkmark$
Year 5	50000	50	2500000	√(3)	17000000	19500000	$\checkmark$
NPV	_	_	Net	_	<b>Discount</b>	<b>Discounted</b>	
	Inflow	Outflow	Cash Flow		Factor	<u>Net Cash</u> <u>Flow</u>	
Year 0		- (5000000)			1	(5000000)	$\checkmark$
Year 1	13500000	(11250000)	2250000	$\sqrt{o/f}$	0.926	2083500	$\sqrt{o/f}$
Year 2	24300000	(1600000)	8300000	$\sqrt{o/f}$	0.857	7113100	$\sqrt{o/f}$
Year 3	29700000	(16500000)	13200000	$\sqrt{0/f}$	0.794	10480800	√o/f
Year 4	35100000	(18500000)	16600000	$\sqrt{o/f}$	0.735	12201000	$\sqrt{o/f}$
Year 5	40500000	(19500000)	21000000	$\sqrt{o/f}$	0.681	14301000	$\sqrt{o/f}$
						(3820600)	$\sqrt{o/f}$

# 6(b) EvaluationAnswers may include:Own figure rule applies

#### **Case for Project**

Net cash flow is positive from year 1/every year.  $\sqrt{}$ NPV will be positive very soon /Year 6  $\sqrt{}$ Users will probably continue to rise in future  $\sqrt{}$ 

#### **Case Against Project**

NPV method states do not invest  $\sqrt{a}$  as NPV is negative  $\sqrt{o/f}$ NPV is a good method to use  $\sqrt{a}$  as it includes falling value of money over time $\sqrt{a}$ 

#### **Other Relevant Points**

Other investment appraisal methods should be used  $\sqrt{}$  eg payback or average rate of return  $\sqrt{}$ How accurate are the predictions  $\sqrt{}$  for costs, cost of capital, and revenues?  $\sqrt{}$ Is the 5 year payback time period appropriate?  $\sqrt{}$  for a project such as this where users build up over the years  $\sqrt{}$ Other possible investment projects available at present?  $\sqrt{}$  More or less profitable?  $\sqrt{}$ Objectives/strategy of company?  $\sqrt{}$  Is this investment in line with objectives?  $\sqrt{}$ Asia telecoms may face competition $\sqrt{}$  which may limit expansion  $\sqrt{}$ 

Maximum of 4 marks for arguing one side

<u>Conclusion</u> - 2 marks Company should not invest  $\sqrt{}$  because of negative NPV after 5 years  $\sqrt{}$ OR company should invest  $\sqrt{}$  because NPV is likely to be positive after more than 5 years  $\sqrt{}$ 

> 8 marks Total 32 marks

a)	Shoes		Boots		Trainers		Sandals	
Sales Revenue	150000		70000	$\checkmark$	312000		54000	
				(2)				(2)
Direct Labour	65000		32000		96000		24000	
Direct Materials	50000		36000		72000		27000	
Semi-VC Variable	25000		4000		32000		3000	
Fixed Costs	35000		6000	(all 8)	40000		6000	(all 8)
Profit (Loss)	-25000	√ o/f	-8000	√ o/f	72000	√ o/f	-6000	√ o/f
							8 marks	
Production	5000		2000		8000		3000	
b) Per Unit	Shoes		Boots		Trainers		Sandals	
Sales Revenue	30		35		39		18	
	10	1				1		1
Direct Labour	13	$\checkmark$	16	$\checkmark$	12	$\checkmark$	8	$\checkmark$
Direct Materials	10		18		9		9	,
Semi-VC Variable	5	$\checkmark$	2	$\checkmark$	4	$\checkmark$	1	$\checkmark$
Fixed Costs	7		3		5		2	
Profit (Loss)	-5	√ o/f	-4	√ o/f	9	√ o/f	-2	√ o/f
Contribution	2	√ o/f	-1	√ o/f	14	√ o/f	0	√ o/f
							16 marks	
<b>c)</b> o/f rule applies	*Shoes		Boots		Trainers		*Sandals	
Short Term	Continue		Stop		Continue		Stop/Continue	
	Continuo	,	ST or LT	$\checkmark$	ST or LT	$\checkmark$		,
Long Term	Stop	$\checkmark$	Stop		Continue		Stop	

\*Shoes and Sandals must make mention to time period (ST or LT) for  $\sqrt{}$ 

Plus two possible extra marks:

Maximum of  $1\sqrt{i}$  f correct mention made of positive contribution / or negative contribution anywhere

OR correct mention of marginal costing anywhere  $\sqrt{}$ 

 $\sqrt{}$  if reason given for supporting decision in ST for Sandals eg expect costs to increase or decrease in future.

If one department closes  $\sqrt{\text{fixed costs may have to be reallocated to other departments }}\sqrt{\text{which may mean that department/}}$  whole business makes a loss.  $\sqrt{}$ 

Footprint Ltd should use resources to increase production of trainers  $\sqrt{}$ 

8 marks

**Total 32 marks** 

Pearson Education Limited. Registered company number 872828 with its registered office at 80 Strand, London WC2R  $\mbox{ORL}$