1. Profit and loss account for Kingman Book Store:

	Sept (\$)	Oct(\$)	Nov (\$)	Dec (\$)
Sales revenue	15,000		10,500	16,000
Cost of goods sold	7,200	5,980		7,520
Gross profit		5,520	4,725	8,480
Gross profit ratio		48%		

a. Define the term 'gross profit ratio'.

(2 marks)

b. Calculate the missing figures in the above table and comment on the performance of Kingman Book Store during the given time period. (6 marks)

	Answer					Marks	
1(a)	 Define the term 'gross profit ratio'. The gross profit ratio calculates the gross profit as a proportion of sales revenue (1) Illustration of the formula: gross profit ratio = (gross profit / sales revenue) x 100 						
	or use of a numerica	al example (1)				
1(0)	performance of Kingman Book Store during the given time period. Profit and loss account for Kingman Book Store:						
		Sept (\$)	Oct(\$)	Nov (\$)	Dec (\$)		
	Sales revenue	15,000	11,500	10,500	16,000		
	Cost of goods sold	7,200	5,980	5,775	7,520		
	Gross profit	7,800	5,520	4,725	8,480		
	Gross profit ratio	52%	48%	45%	53%		
	Valid points for the comr	nentary could	d include:				
	Sales revenues hav the four months (1)	e fluctuated	over the peri	od but risen	by 6.67% during	6	
	• Cost of goods sold has increased by 4.1%, i.e. a smaller proportion than the increase in sales (1)						
	• Thus, gross profit has increased by 8.7% (1)						
	• There has been an insignificant change in the gross profit ratio (1)						
	• Overall, the financia	l performance	e of the firm h	nas been quit	e steady (1)		
	Award up to 3 marks the appropriate. Award up to	for the calcu o 3 marks for	llations; appl	y the own fi ntary.	gure rule where		

2. Study the data in the table below for two firms in direct competition and answer the questions that follow:

Business	Gross profit ratio	Net profit ratio
Zawada Ltd.	40%	20%
Chan Corp.	45%	23%

a. Define the term 'net profit ratio'.

(2 marks)

b.Using the financial information provided, assess whether Zawada Ltd. or Chan Corp. has performed better. (6 marks)

	Answer					Marks
2(a)	 Define the term 'net profit ratio'. The net profit ratio calculates the net profit of a firm as a proportion of its sales revenue (1) Illustration of the formula: net profit ratio = (net profit / sales revenue) x 100 or use of a numerical example (1) The difference between a firm's gross and net profit ratios indicates its ability to control expenses (1) 					2
2(b)	Valid explanate • Chan Corp. h	ancial information in the second seco	ation provided, asso better. Gross profit ratio 40% 45% d include:	Net profit ratio 20% 23%	a Ltd. or	
	 (2) Chan Coperformar Zawada L 20% at Za There is lie.g. other (2) 	rp. also has a nce (2) td. has better c awada Ltd., cor mited data give data such as s	a higher net profit ra overhead control as ex npared to 22% at Cha en, so a true/fair asse ales revenue and cap	atio, showing better openses reduce gross an Corp. (2) ssment might not be bital employed would	financial s profit by possible, be useful	6

3. Study the a -{ :{ act } / (act) / (, for Renaissance Getaway Tours and answer the questions that follow. Working capital is the difference between current assets and current liabilities:

	2012 (\$)	2011 (\$)
Buildings	250,000	228,000
Vehicles	85,000	95,000
•		
Debtors	8,000	7,000
Cash	6,000	10,000
	14,000	17,000
•		
Creditors	4,600	5,200
Overdraft	6,300	3,300
•		
Share capital	150,000	150,000
Retained profit	82,000	55,500
Mortgage	106,100	126,000

a. Define the term 'capital employed'.

(2 marks)

b. Assume that the net profit for Renaissance Getaway Tours is \$25,000 in 2012 and \$22,000 in 2011. Calculate the return on capital employed for both years and comment on your findings.
 (4 marks)

	Answer	Marks		
3(a)	Define the term return on 'capital employed'.			
	 Capital employed is the amount of money invested in the business. (1) It is the sum of all internal and external sources of finance. (1) 	2		
	• The capital employed figure can be seen in a firm's balance sheet. (1)			
3(b)	Assume that the net profit for Renaissance Getaway Tours is \$25,000 in 2012 and \$22,000 in 2011. Calculate the return on capital employed for both years and comment on your findings.			
	• ROCE for 2011: \$25,000 / \$338,100 = 7.39% (1)			
	• ROCE for 2012: \$22,000 / \$331,500 = 6.64% (1)			
	Valid points could include:	_		
	• Explaining what the ratios actually show, e.g. for each \$100 of capital employed by the firm in 2011, \$7.39 was generated as net profit (1)	4		
	The financial performance based on the ROCE ratio was better in 2011 than 2012 (1)			
	• However, the firm should compare these ratios to the expected returns from other projects and/or bank savings rates to gauge the level of return (1)			
	Award up to 2 marks for the calculations and up to 2 marks for the commentary.			

4. The manager at Vipalas Glassware has calculated that the firm's current ratio for the past three years is as follows:

2010	2011	2012
2.45:1	1.95:1	1.1:1

a. Define the term 'current ratio'.

(2 marks)

b. Using the information provided, analyse the financial position of Vipalas Glassware. (4 marks)

	Answer	Marks			
4(a)	 Define the term 'current ratio'. The ratio looks at how solvent (or liquid) a business is in the current year (1) i.e. the extent to which the business can cover its current liabilities with its current assets (1) Illustration of the formula: Current ratio = Current assets / Current liabilities (1) or for use of a numerical example (1) 				
4(b)	Using the information provided, analyse the financial position of Vipalas Glassware. 2010 2011 2012 2.45:1 1.95:1 1.1:1 Valid points could include an analysis of: • The current ratio having deteriorated over time (2) • What the figures reveal, e.g. in 2011 the company had \$1.95 of current assets for each \$1 of current liabilities (2) • The liquidity position – i.e. sufficient liquidity, albeit not ideal in 2012 (2) • Other factors that might need to be considered before judging the financial	4			
	• Other factors that might need to be considered before judging the financial position of the firm, e.g. gross profit and ROCE ratios (2)				

5. Study the information below for three rival businesses and answer the questions that follow:

	Arsenal (\$)	Bolton (\$)	Chelsea (\$)
Current Assets		,	
Stocks	25,000	10,000	40,000
Debtors	3,000	5,000	20,000
Cash	30,000	20,000	15,000
Current Liabilities			
Creditors	20,000	25,000	30,000
Overdraft	10,000	10,000	12,000

a. Distinguish between the acid test and current ratios.

(2 marks)

b. Calculate the current ratio and acid test ratio for Arsenal, Bolton and Chelsea. Comment on the relative financial performance of these businesses. (6 marks)

	Answer					Marks
5(a)	 Distinguish between the acid test and current ratios. The acid test ratio ignores stock (inventory) from the calculation of short term liquidity (1) Illustration of the formulae (1) 					2
- // >	or for use of a numerical ex	xample (1)	forAroonal	Polton and Cha		
5(b)	Comment on the relative fina	incial perform	ance of these	e businesses.	isea.	
		Arsenal (\$)	Bolton (\$)	Chelsea (\$)		
	Current Assets					
	Stocks	25.000	10.000	40.000		
	Debtors	3,000	5,000	20,000		
	Cash	30,000	20,000	15,000		
		58,000	35,000	75,000		
	Current Liabilities					
	Creditors	20,000	25,000	30,000		
	Overdraft	10,000	10,000	12,000		
		30,000	35,000	42,000		
	Current ratio	1.93:1	1:1	1.78:1		
	Acid test ratio	1.1:1	0.7:1	0.83:1		
	 Valid points for the commentary could include: Chelsea has a high degree of risk with its high value of stocks and debtors (1) Most of Chelsea's current assets come from stocks – a problem if it is difficult to offload stocks in the industry (1) Chelsea has the least cash (the most liquid asset) as a proportion of current 					6
	 Arsenal has the lowest amount owed to its suppliers (creditors), suggesting that it has better financial control (1) 					
	• All three firms have a current ratio of less than 2:1 suggesting possible liquidity problems (1), albeit not so problematic for Arsenal compared to Bolton (1)					
	• Bolton and Chelsea both have an acid test of less than 1:1, implying that they have huge/potential liquidity issues (1)					
	Award up to 3 marks for the cal to 3 marks for the commentary	lculation of cur	rent and acid	test ratios. Awa	rd up	

6. Compare the data in the table below for three competitors and answer the questions that follow:

	Alpha	Beta	Gamma
Sales revenue	100,000	120,000	150,000
Gross profit	58,000	65,000	72,000
Net profit	38,000	40,000	52,000
Capital employed	80,000	100,000	200,000
Current Assets	20,000	20,000	45,000
Current Liabilities	10,000	12,000	22,000
Stocks	10,000	8,000	20,000
Gross profit ratio			
Net profit ratio			
Return on capital employed			
Current ratio			
Acid test ratio			

a. Complete the missing calculations in the table above.

(5 marks)

b. Using the financial data, assess which firm has performed best on financial grounds. (6 marks)

	Answer				Marks
6(a)	Complete the missing calculation	ons in the tab	le above.		
		Alpha	Beta	Gamma	
	Sales revenue	100.000	120.000	150.000	
	Gross profit	58.000	65.000	72.000	
	Net profit	38,000	40,000	52,000	
	Capital employed	80,000	100,000	200,000	
	Current Assets	20,000	20,000	45,000	
	Current Liabilities	10,000	12,000	22,000	-
	Stocks	10,000	8,000	20,000	5
	Gross profit ratio	58%	54.17%	48%	
	Net profit ratio	38%	33.3%	34.6%	
	Return on capital employed	47.5%	40%	26%	
	Current ratio	2:1	1.67:1	2.04:1	
	Acid test ratio	1:1	1:1	1.13:1	
	Deduct 1 mark for each error, but a as appropriate.	apply the own f	igure rule (errc	or carried forward)	
	 Valid points could include: Gamma has better sales than its rivals, by between 20-50% (1) Gamma is also the best performer when comparing gross profit (1) and/or net profit (1) However, both Alpha and Beta perform better when using the gross profit ratio (1) which suggests they have better control over their cost of goods sold (1) Alpha's net profit ratio is the best at 38% (1), suggesting that it has good overhead control (1) Gamma is at least twice the size of its rivals (as measured by capital employed), yet its profit is not proportionately higher (1); both Alpha and Beta have a significantly larger ROCE (1) Beta's liquidity as measured by the current ratio is not as safe as its rivals who have a ratio of at least 2:1 (1) All three firms have adequate liquidity as measured by the acid test (1) Based on profitability, it seems that Gamma has performed the best (1) 				
	Award 1-2 marks for a vague/unde Award 3-4 marks for answers with Award 5-6 marks for a balance question.	eveloped answ some applica d and develo	ver that lacks s tion/use of the ped answer t	ubstance. data. hat answers the	