# **Marking Key**

### **ACCOUNTING AND FINANCE**

ATAR

Unit 3

**Wesley College Semester One Examination 2019** 

This is a provisional marking key developed by BEWA that can be reviewed and modified by the teacher as necessary.

This marking key does not show the only alternatives possible. Candidates should not be penalized for consequential errors alternative responses or presentations and modified by the teacher as necessary.

This Marking key may not be released to students until towards the end of Term 2 for the security of the examination being done by other schools up until this time. Please email bewag inet.net.au to advise when you have given the examination to Joir Marking key will be advise when you have given the examination to Joir Marking key will be examination to provide the examination being advised when you have given the examination to Joir Marking key will be examination being advised when you have given the examination to the examination being advised when you have given the examination to advise when you have given the examination to the examination being advised the providence of the examination being the examination to advise when you have given the examination to the examination to advise when you have given the examination to advise when

Analysis of questions

Question	Practical	Theory	Question	Practical	Theory	
1				_		
2						
3 4 5 6						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13		_				
14		1	Total SA	129 (60%)	21 (10%)	
15		1				
Total MC	(0%)	15 (15%)	21		30	
16 a	11		OR 22			
b	7		Total EX		30 (15%)	
С	6					
d		3	Paper total	60%	37%	
е		6				
17a	22		Weighting			
b		4	MC 15%	0%	15%	
С	8		SA 70%	60%	10%	
d		4	EX 15%		15%	
	_		TOTAL	60%	40%	
18 a	6					
b	9					
С	4		Range	60-65%	35-40%	
d	3					
е	13					
19 a	13	_				
b		2				

Wesley College Examination Marking Key ATAR Unit 3

Semester One 2019

Section One: Multiple-choice 15% (15 Marks)

This section has **15** questions. Each question is worth **one** mark. Attempt **all** questions.

Question	Answer
1	С
3	A C
3	С
4	D
5	D
6	Α
7	В
8	В
9	С
10	A C
11	С
12	В
13	Α
14	Α
15	D

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Section Two: Short answer 70% (150 Marks)

#### **Instructions for teachers:**

- Allow for follow through errors: that is consequential errors should not be penalised
- Marks should not be subtracted for incorrect solutions
- Accept any other reasonable answers when marking theory questions

# Question 16 (33 marks)

(a) Calculate the net cash flows in the table below;

(11 marks)

Year	Cash Inflows	Cash Outflows	Net cash flow
0		\$300,000	-\$300,000 <b>(1)</b>
1	\$125,000	\$130,000	-\$5,000 <mark>(1)</mark>
2	\$150,000	\$130,000	\$20,000 (1)
3	\$248,000 + \$10,000	\$135,000 + \$15,000	\$108,000 <mark>(4)</mark>
4	\$248,000 + \$10,000	\$135,000	\$123,000 <mark>(2)</mark>
5	\$260,000 + \$10,000	\$135,000	\$135,000 (2)

(b) Calculate the payback period for the project.

(7 marks)

Year 0	\$300,000	
Year 1	+\$5,000	(1)
	305,000	
Year 2	-\$20,000	(1)
	285,000	
Year 3	-108,000	(1)
	177,000	
Year 4	-123,000	(1)
	54,000	
Year 5	-135,000	

<sup>\*\*</sup> $(54,000/135,000) \times 12 = 4.80 \text{ months rounded to 5 months}$ 

# Payback period: 4 years 5 months (total 7 marks)

Alternative calculation:

\$300,000 - \$246,000 = \$54,000  $54,000/135,000 \times 12 = 4.80 \text{ rounded}$ up to 5 months (3)

Payback period 4 years 5 months.

Year	Net Cash Flow	Cumulative	Marks
1	-5,000	-5,000	(1)
2	20,000	15,000	(1)
3	108,000	123,000	(1)
4	123,000	246,000	(1)
5	135,000	381,000	

(c) Calculate the Net Present Value of the project to nearest whole dollar.

(6 marks)

	Workings	Present Value
Year 1	-\$5,000 x 0.9434	-\$4,717 (1)
Year 2	\$20,000 x 0.8900	\$17,800 (1)
Year 3	\$108,000 x 0.8396	\$90,677 (1)
Year 4	\$123,000 x 0.7921	\$97,428 (1)
Year 5	\$135,000 x 0.7473	\$100,886 (1)
	PV of future cash flows	\$302,074 <b>(5)</b>

Present value of future cash flows – present value of cost of project

NPV = \$302,074(5) - \$300,000(1)

= \$2,074

(d) Based on your calculations, would you recommend the owners of Green Leaf Garden Supplies proceed with this project? Give two reasons to justify your answer?

(3 marks)

# Yes. (1)

- NPV of future cash flows is positive. The project cash flows will exceed the desired return of 6%.
- The payback period is also within the owners' targeted period of 5 years.

1 mark for each (max 2 marks) acceptable answer to justify the yes or no response must link to calculations in part b & c.

(e) Identify and discuss three other factors which should be considered by Green Leaf Garden supplies when considering whether or not to proceed with their project.

(6 marks)

- **Customer preferences**: (1) Will customers in the Ellenbrook area want to purchase the unique garden supplies which will possibly be more expensive than other competitors in the same area. (1)
- **Competitors**: (1) Who are the other major competitors in the Ellenbrook area supplying similar types of products? (1)
- What type of garden supplies do other competitors offer are they similar? .
- **Government regulation**: (1) Is there any legal or environmental restriction on starting up the garden type of business in the Ellenbrook area? (1)
- Hard to reverse
- High risk
- Involves large sums of money

2 marks per answer given -1 mark for naming, 1 mark for further explanation

Other relevant or reasonable responses

# Question 17 (38 Marks)

### Required:

(a) Prepare a budgeted Income Statement (unclassified) for Pesky Peloton for the three months ending 31 December 2019. (22 Marks)

# Workings

Accounts receivable (98.5%) = 167 450

(100%) = 167 450 (1)/98.5 \* 100 (1)

= 170 000 (Credit sales Sep-Nov)

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Credit sales =  $170\ 000\ (2) + 65\ 000\ (1) - 50\ 000\ (1)$ 

= 185 000

Total sales = Credit \$185,000 + Cash \$112,000 = \$297,000(4) (1)

OR

#### Accounts Receivable

Date	Details	Debit	Date	Details		Credit
30 Sept	Op bal	\$50,000		Bank	(1)	\$167,450
	(1)					
31 Dec	Credit Sales	<u>\$185,000</u>		Disc allowed	(1)	\$2,550
				Bal c/d	(1)	65,000
		\$235,000				\$235,000

Discount allowed: \$167,450 (1) /.985 (1) = \$170,000 - \$167,450 (1) = \$2,550

Interest:  $$50,000 (1) \times 7\% (1) = $3,500/12 (1) = $292$ 

Insurance:  $$12,000 (1) \times 3/12 (1) = $3,000$ 

Depreciation:  $\$900 (1) \times 3 (1) = \$2,700$ 

Loss on Sale = Proceeds – Carrying Amount

= 3,000 (1) - (20,000 (1) - 16,000 (1)) = \$1,000

OR

#### Sale of asset

				aic oi acc	Ot .	
Date	Details		Debit	Date	Details	Credit
	Equipment	(1)	\$20,000		Accum Depn (1)	\$16,000
					Proceeds from sale (1)	\$3,000
					Loss on sale	\$1,000
			\$20,000			\$20,000

	Peloton		
	me Statement		
For three months endi	ng 31 December 201	9	
Total Sales	\$297,000		(5)
Less: Discount Allowed	\$2,550		(3)
Net Sales		\$294,450	
Less: Cost of Sales		\$152,000	(1)
Gross Profit		\$142,450	
Less: Operating expenses			
Loss on sale of asset	\$1000		(3)
Interest on loan	\$292		(3)
Insurance	\$3,000		(2)
Depreciation	\$2,700		(2)
Wages and salaries	\$98,000		(1)
Rent	\$9,000		(1)
Other expenses	\$4,500	\$118,492	(1)
Estimated profit before tax		\$23,958	
Income Tax		7,187	
Estimated profit after tax		16771	

#### Deduction 1 mark for each additional item added to a maximum of 2 marks

(b) Explain the purpose of a budgeted Income Statement.

(4 marks)

- 1. The budgeted income statement enables the business to estimate income/expenses for a future period and predict any profitability problems (1) and adjust the budget if considered appropriate. (1)
- 2. The figures in the budgeted income statement can also be compared with actual figures at the end of the period (1) which then allows management to investigate differences. (1)

(c) Calculate the variances on the Cash Budget Performance Report of Pesky Peloton for the three months ending 31 December 2019. (8 marks)

Pesky Peloton Cash Budget Performance Report For three months ending 31 December 2019				
	Budget	Actual	Variance	
Receipts				
Cash sales	112,000	115,000	3,000 F	(1)
Receipts from debtors	167,450	150,000	(17,450) U	(1)
Proceeds of loan	50,000	50,000	0	
Proceeds from sale of equipment	3,000	2,500	(500) U	(1)
Total receipts	332,450	317,500	(14,950)	*
Payments				
Wages and salaries	98,000	100,000	(2,000) U	(1)
Purchases of inventory	144,000	160,000	(16,000) U	(1)
Rent	9,000	8,900	100 F	(1)
Other expenses	4,500	4,000	500 F	(1)
Drawings	6,000	6,000	0	
Purchase of new plant and equipment	40,000	40,000	0	
Total payments	301,500	318,900	<u>17,400 U</u>	*
Cash surplus/deficit	30,950	(1,400)	32,350 U	
Cash balance at beginning of	14,300	14,300	0	
Cash balance at end of period	<u>45,250</u>	12,900	<u>32,350 U</u>	*(1

(d) Examine the Cash Budget Performance Report for Pesky Peloton and give two possible reasons for the variation in receipts from debtors and two possible reasons for the variation in purchases of inventory. (4 marks)

# Receipts from debtors (2) – 1 for each acceptable answer

- 1. Poor follow-up collecting amounts owing from customers
- 2. Credit Sales may have declined over the period resulting in lower cash receipts from customers.
- 3. Credit customers may have paid amounts owing earlier than expected. Therefore, some actual cash flows from customers appear in prior period.

# Purchases of inventory (2) - 1 mark for each acceptable answer

- 1. May have purchased extra inventory supplies in order to take advantage of lower price.
- 2. Increase in cost of inventory compared to budgeted cost.

Question 18 (35 marks)

9

(a) Calculate the sales mix for the three products

(6 marks)

Workings:		
Total units = 5,100	0 + 5,500 + 6000 = 16,600 (3)	
2 seater lounge	5,100/16,600 = 31% (1) + (3)	
3 seater lounge	5,500/16,600 = 33% (1)	
Cushions	6,000/16,600 = 36% <b>(1)</b>	
	Sales Mix 2 seater lounge: 31	L%
	Sales mix 3 seater lounge:	33%
	Sales mix rocker recliner:	36%

(b) Calculate the weighted average contribution margin.

(9 marks)

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Workings:

2 seater lounge: $1150 (1) - 650 (1) = $500 x 31% (1) = $155.00

3 seater lounge: $1890 (1) - 1260 (1) = $630 x 33% (1) = $207.90

Rocker recliner: $650 (1) - 350 (1) = $300 x 36% (1) = $108.00

$470.90

Weighted average contribution margin: $470.90
```

(c) Calculate how many 2 seater lounges need to be sold to break even. (4 marks)

```
Total fixed costs = $1,050,000 (1) + $800,000 (1) = $1,850,000

BE (total units) = = $1,850,000 / $470.90 (1) = 3,929 units

BE(2 seater) = 3,929 x 31% (1) = 1218

2 seater lounge Break-even point: 1218 units
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(d) Calculate the margin of safety as a percentage for 2 seater lounges. (3 marks)

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MOS = 5,100 (1) - 1,218 (1)= 3,882 / 5,100 (1) = 76.12%

2 seater lounge Margin of safety: 76.12%
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# Semester One 2019

(e) Marple Manufacturers is limited to 71,000 machine hours to make their products. What combination of products should Marple Manufacturers produce in order to maximise profit?

(13 marks)

Contribution margin pe	Contribution margin per unit per machine hour:				
	CM per unit /machine hours per unit				
2 seater lounge:	\$500/4 = \$125.00 <mark>(2)</mark>				
3 seater lounge:	\$630/5 = \$126.00 <mark>(2)</mark>				
Rocker recliner:	\$300/4 = \$75.00 <mark>(2)</mark>				

Total machine hours available for the year = 71,000

3 seater lounge greatest contribution margin per machine hour therefore produce maximum followed by 2 seater lounge and rocker recliner.

Total machine	Anticipated Sales x	Total machine	71,000	1
hours available	machine hours	hours		
3 seater lounge	5,500 x 5	27,500	43,500	2
2 seater lounge	5,100 x 4	20,400	23,100	2
Rocker recliner	23,100/4 = 5775 units		0	2
	Remaining machine hours			

3 seater lounge: 5,500 units
3 seater lounge: 5,000 units
Rocker recliner: 5,775 units

Semester One 2019 Question 19 (15 marks)

Direct n(a)eCalculate if the	busi <b>\$257\$</b> 0s	h <b>(11)</b> d	accept the special order.
Direct labour	\$200	(1)	
Variable expenses	\$200	(1)	
Total variable costs	\$670		Maximum capacity $= 5$ ,
Less reduction per unit	-\$20	(1)	Current production = $5$ ,
Total variable cost for	\$650		Idle capacity =

(13 marks)

Maximum capacity = 5,900 units (1) Current production = 5,000 units (1)

Idle capacity = 900 units

Special order will result in an opportunity cost of

500 units (1,400 (1) - 900 (2)) = 500

Total variable costs

special order

Contribution margin on special order

Sale price		1,400 x \$810	\$1,134,00	2
			0	
Less varia	ble costs	1,400 x \$650	\$910,000	4
Contributi	on margin		\$224,000	
Less				
Special ed	quipment		\$35,000	1
Opportuni	ty cost	500 units x (\$930 - \$670)	\$130,000	5
Contributi	on margin on	(3) (1) (1)		
normal pr	oduction			
Gain on s	pecial order		\$59,000	

- Yes (1)

**Accept special order** 

(b) Explain how fixed costs impact the decision to accept the special order.

(2 marks)

Fixed costs have no impact on the decision to accept or reject the special order (1) as the fixed costs remain the same whether the special order is accepted or not. (1)

# Question 20 (29 marks)

(a) Calculate the standard cost of the product.

(7 marks)

Direct materials	3m (1) x \$7 (1)	21	2
Direct labour	0.5 hs (1) x \$12 (1)	6	2
Overheads	\$24,000 (1) / 3000hr (1) x 0.5 hr (1)	4	3
Total standard cost		\$31	

(b) Calculate the direct materials price variance

(5 marks)

(c) Calculate the direct material usage variance

(5 marks)

```
Workings

(AQI-SQA) x SP

17,750 - (3 x 6000) x $7 = 17,750 - 18,000 x $7 = -$1750 favourable

(1) (1) (1) (1) (1)

Direct materials usage variance: $1,750 favourable
```

(d) Calculate the direct labour rate variance

(5 marks)

(e) Calculate the direct labour efficiency variance

(5 marks)

Accept calculations per batch or per unit as question does not clearly specific

(f) Give two reasons to help explain the labour efficiency variance of Agatha and Christie Manufacturing. (2 marks

Improved productivity by well trained and experienced staff (1)

New machinery or equipment which has reduced labour hours in the production process.

(1)

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Section Three: Extended answer 15% (30 Marks)

# Question 21 (30 marks)

(a) Outline the importance of business planning. How can goals, objectives and strategic business strategies help Gerry and Mary plan for a successful business?

(9 marks)

### Business planning (3)

- It is an operating tool by which to manage the business and work towards success
- Communicates business ideas
- Allows for better use of scarce resources
- Sets benchmarks to judge performance
- Promotes accountability
- It improves the organisational focus

(max 3 marks for appropriate responses)

# Setting goals (2)

- Establish a vision statement
- A view of where the business will be in short to medium term
- How will the business be operated into the future.
- What do Gerry and Mary want from their business?

(max 2 marks for appropriate responses)

#### Establishing objective (2)

- Setting targets for measuring success
- Objectives must be SMART Specific, Measurables. Agreed, Realistic, Time Specific
- Key Performance Indicators can be the business' objectives.

(max 2 marks for appropriate responses)

# Strategic business strategies (2)

- Cost leadership verses differentiation (i.e. competing with other competitors by keeping costs as low as possible and competing on price or competing on basis of offering a unique or premium product or service).
- Setting strategic targets that can be measured.
- Performance management checking that KPI's have been achieved.
   (max 2 marks for appropriate responses)
- (b) Explain the difference between management and financial accounting. (6 marks)

# Management Accounting (3)

- Produce reports for internal use only.
- Reports used by managers, sales managers, production managers, financial controller
- Reports are future focussed
- No specific time period
- Reports produced when required
- Reports focussed on planning, coordinating and controlling

(1 mark each for any correct response-max 3 marks)

# Financial Accounting (3)

- Produce reports for external users
- Reports used by shareholders, ATO, ASIC, employees, lobby groups, banks, investors.

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- Reports are historical in nature report what has happened.
- Reports are for a specified time period usually the financial year.
- Subject to regulation
- Example of reports Statement of position, Income statement, Cash Flow Statement, Statement of changes in equity.

(1 mark each for any correct response-max 3 marks)

(c) Explain the importance of managing inventory and some procedures that Gerry and Mary could establish to ensure the appropriate management of inventory.

(6 marks)

# Importance (3)

- Inventory levels can represent a large portion of the assets of a business
- Significant costs in storage of inventory
- Significant costs in managing and accounting for inventory
- Some inventory can become obsolete if not managed well
- Inventory can be stolen by customers or employees if not managed well
- Too much inventory may tie up money that could be better used elsewhere
- Too little inventory may mean a loss in sales

(1 mark each for any correct response-max 3 marks)

# **Inventory Procedures (3)**

- Use perpetual inventory management system to help keep track of level of inventory on hand and inventory re-order points.
- Conduct stocktakes to confirm inventory on hand
- Check delivery of inventory against order forms and invoices
- Keep inventory in secure location with appropriate alarm systems in place.
- Segregation of duties to ensure different employees are ordering inventory, receiving inventory and paying for inventory.to help reduce errors, theft and fraud.

(1 mark each for any correct response-max 3 marks)

(d) Gerry and Mary will need to set up credit arrangements for restaurant clients purchasing fresh meat and vegetables. Explain procedures for setting up and credit arrangements for their customers and managing accounts receivable.

(5 marks)

#### Setting up credit arrangements (2)

• Establish good credit checking procedures – customers to apply for credit, check bank and referees, set realistic credit limits and repayment terms.

(1 mark each for any correct response-max 2 marks)

#### Managing accounts receivable (3)

- Ensure invoices are sent out quickly and statements issued monthly.
- Follow-up outstanding amounts immediately.
- Be prudent in allowing extension of time for customers to pay amounts owing.
- Offer discounts to encourage early payment.
- Segregate duties to reduce risk of errors and fraud.

(1 mark each for any correct response-max 3 marks)

(e) Explain the benefits and costs of engaging in good environmental practices.

(4 marks)

# Benefits (2)

- Most consumers are environmentally aware and expect to see good environmental practices within businesses.
- Can be a point of difference which enhances competitive advantage.
- Enhances reputation within the community.
- Retain staff who want to work for an organisation committed to good environment practices.

(1 mark each for any correct response-max 2 marks)

# Costs (2)

- Can involve additional costs to implement good environmental policies within the business
- Can take time away from other important work within the business
- May lose some customers who may not be able to obtain some products due to environmental issues.

(1 mark each for any correct response-max 2 marks)

# Question 22 (30 marks)

(a) Explain the difference between cash and accrual accounting. Provide an example of both an income item and an expense item to illustrate your answer. (6 marks)

Cash accounting-income and expenses are recorded only when cash is actually received or actually paid within an accounting period. (1)

Accrual accounting – income is recorded when earned and expenses are recorded when actually incurred. (1)

Examples-assume financial year ending 30 June			
	Cash accounting	Accrual Accounting	
Rent \$300 received for	\$300 recorded as at 1	\$100 – 1 month's rent	
3 months in advance	June (1)	recorded as at 1 June (1)	
on 1 June			
Wages of \$20,000 paid	\$20,000 recorded as an	\$21,500 recorded as an	
up to 25 June with	expense up to 30 June(1)	expense up to 30 June(1)	
\$1,500 owing as at 30			
June but not payable			
until 1 July			

(2 marks for suitable example of income and 2 mark for example of expense)

(b) Discuss the purpose and function of performance reports. Provide two examples of common performance reports used in business. (6 marks)

### Purpose (1)

• Businesses set goals and objectives and the purpose of a performance report is to measure the goals and objectives against actual results.

#### Function (3)

- To compare budgeted or planned performance against actual result to measure and investigate variances.
- Highlight favourable and unfavourable differences.
- To work out where changes need to be made in planning future budgets and goal setting.
- To assist in maintaining control over processes within the business and to improve performance into the future.
- Identify any flaws in budgeting process or need for future budget modifications (1 mark each for any three appropriate examples)

### Example reports (2)

- Cash budget performance report
- Sales budget performance report
- Budgeted income statement performance report.
- Ratio analysis of end of financial year financial reports such as Statement of Position and Income Statement
- Expenses budget

(1 mark each for any two appropriate examples)

(c) What is a cash budget and how can a cash budget assist in management of the cash needs of a business? (5 marks)

A cash budget sets out the opening cash on hand and estimated future cash inflows and outflows and estimated cash balance at end of budget period. (1)

The cash budget can be calculated for any period of time as determined by management. (1)

### Assist management (3)

- A cash budget is important as a planning tool for a business.
- A cash budget will identify surplus cash at the end of the budget period. Plans can be put in place to invest surplus funds in order to maximise returns on the surplus cash.
- A cash budget will identify cash shortfalls at the end of the budget period. Plans
  can be put in place to borrow cash to cover the shortfall or management may
  decide to change plans to avoid cash shortfall e.g. not proceed with purchase of a
  non-current asset until cash position improves.
- Enables a business to continually monitor cash position.

(1 mark each for any acceptable three responses)

(d) What is cost-volume-profit analysis? List four ways a company can use cost-volume-profit analysis to assist in planning. (5 mark)

Cost volume profit analysis (CVP) is used to determine how changes in costs and volume can affect the profit of a business. (1)

### Uses (4)

- A business can use CVP analysis to estimate future profits
- Decide on a selling price of products
- Calculate the best mix of products to sell to maximise profits.
- Make decisions about making or buying materials to use in the production process
- Calculate the break-even point in units and dollars
- Calculate is an area of production should be closed down
- Decide to accept a special order or not.

(1 mark each for any four acceptable responses)

(e) Define the concept of insolvency as per the *Corporations Act 2001.* (2 marks)

A person is solvent if, and only if, the person is able to pay all the person's debts, as and when they become due and payable. (1)

A person who is not solvent is insolvent. (1)

(f) What is voluntary administration and what are benefits of voluntary administration? (6 marks)

Voluntary administration is when an administrator is appointed (1) by either a creditor or majority of directors (1) to take control of the business and seek ways to solve a company's financial difficulties. (1)

#### Benefits (3)

- An outside, independent 'administrator' is appointed to take control of the company and investigate the possibility of working through liquidity problems to get the company back on track.
- Assesses actual financial position
- Gives time to consult with creditors
- Creditors can consider options as a group

- Is inexpensive to initiate
- Provides a legal mechanism to deal with creditors and negotiate payment of debts.

(1 mark each for any three acceptable responses)

**End of questions**