FANLING LUTHERAN SECONDARY SCHOOL 2022-2023 First Term Uniform Test

S.6 BUSINESS, ACCOUNTING & FINANCIAL STUDIES Marking Scheme

SECTION A (38 marks)

1.

Appropriation account

		ippi opi iuu	on account	
	\$	\$		\$
Interest on capital –			Profit and loss (net profit)	100,000
Current: Tsui (\$60,000x10%)		6,000	Interest on drawings –	
Current: Chong (\$80,000x10%)		8,000	Current: Tsui (\$20,000x8%x3/12)	400
Salary to partner –			Current: Chong (\$30,000x8%x3/12)	600
Current: Chong		20,000		
Share of profit –				
Current: Tsui (2/5)	26,800			
Current: Chong (3/5)	40,200	67,000		
		101,000		101,000

Current

Tsui	Chong		Tsui	Chong
\$	\$		\$	\$
20,000	30,000	Balance b/d	40,000	50,000
400	600	Appropriation–Interest on capital	6,000	8,000
52,400	87,600	Appropriation—Salary to partner	—	20,000
		Appropriation–Share of profit	26,800	40,200
72,800	118,200		72,800	118,200
	\$ 20,000 400 52,400	\$ \$ 20,000 30,000 400 600 52,400 87,600	\$ \$ \$ 20,000 30,000 Balance b/d 400 600 Appropriation—Interest on capital 52,400 87,600 Appropriation—Salary to partner Appropriation—Share of profit	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$

(Total 10 marks)

2.

Revaluation

	\$	\$		\$
Motor vehicles (\$80,000 – \$30,000)		50,000	Buildings (\$280,000 – \$100,000)	180,000
Allowance for doubtful accounts		5,000	Trade receivables (bad debts recovery)	2,000
Cash at bank – Professional fees		12,000	-	
Profit on revaluation –				
Capital: Cai (1/2)	57,500			
Capital: Li (1/2)	57,500	115,000		
		182,000		182,000

Capital

				1			
	Cai	Li	Chan		Cai	Li	Chan
	\$	\$	\$		\$	\$	\$
Goodwill (5 : 3 : 2)	100,000	60,000	40,000	Balances b/f	120,000	180,000	
Balance c/f	177,500	277,500	30,000	Goodwill (1 : 1)	100,000	100,000	
				Cash at bank	—		70,000
				Revaluation	57,500	57,500	
	277,500	337,500	70,000		277,500	337,500	70,000

(Total 10 marks)

3. (a)

Realisation

	\$	\$		\$
Office equipment		30,000	Bank – Office equipment	36,000
Motor vehicles		40,000	Bank – Inventory	60,000
Inventory		50,000	Bank – Trade receivable	24,000
Trade receivable		10,000	Capital: Hui - Motor vehicles taken over	44,000
Bank – Dissolution costs		3,000	Trade payable – Discounts received	1,000
Profit on realization –				
Capital: Hui (1/8)	4,000			
Capital: Luo (3/8)	12,000			
Capital: Wong (4/8)	16,000	32,000		
		165,000		165,000

(b)

Capital

	Hui	Luo	Wong		Hui	Luo	Wong
	\$	\$	\$		\$	\$	\$
Realisationr	44,000	_	_	Balances b/f	70,000	30,000	40,000
Bank-Final settlement	34,000	47,000	63,000	Current	4,000	5,000	7,000
				Realisation	4,000	12,000	16,000
	78,000	47,000	63,000		78,000	47,000	63,000

Bank

Dank				
	\$		\$	
Balances b/f	37,000	Trade payable	10,000	
Realisation–Office equipment	36,000	Realisation–Dissolution costs	3,000	
Realisation–Inventory	60,000	Capital: Hui–Final settlement	34,000	
Realisation–Trade receivable	24,000	Capital: Luo–Final settlement	47,000	
		Capital: Lee–Final settlement	63,000	
	157,000		157,000	

(Total 18 marks)

Section B (79 marks)

- 1. (a) mixed cost
 - (b) opportunity cost
 - (c) sunk cost
 - (d) fixed cost
 - (e) variable cost

(Total 10 marks)

- (a) The contribution margin for each unit of the product = \$100 \$7 \$8 \$9 \$20 = \$56
 - (b) Total fixed cost = \$150,000 + \$100,000 = \$250,000Target profit sales unit = (\$250,000 + \$30,000) / \$56 = 5,000 units Target profit sales revenues = $5,000 \times 100 = 500,000$
 - (c) Unit contribution after the price change = \$200 \$7 \$8 \$9 \$20 = \$156Net profit before the price change = \$30,000Net profit after the price change = $2,000 \times 156 - 250,000 = 62,000$ Cheung's Co should increase the price as the net profit would increase \$32,000 after the change.

(Total 12 marks)

- (a) Contribution margin per unit for products A = 365 80.5 60.5 24.0 21.5 = \$178.5 per unit Contribution margin per unit for products B = 390 - 95.0 - 61.0 - 24.5 - 21.5 = \$188 per unit Contribution margin per unit for products C = 225 - 45.5 - 40.0 - 20.5 - 21.5 = \$97.5 per unit
 - (b) Fixed manufacturing overheads absorption rate per machine hour = \$440,000/20,000 = \$22 per machine hour
 - (c) The number of machine hours for each unit of products $A = \frac{55.0}{22} = 2.5$ machine hour The number of machine hours for each unit of products B = \$88.0/\$22 = 4 machine hour The number of machine hours for each unit of products C = \$33.0/\$22 = 1.5 machine hour
 - (d) Contribution margin per machine hour for each unit of products A = \$178.5 / 2.5 = \$71.4 per machine hour Contribution margin per machine hour for each unit of products B = \$188 / 4 = \$47 per machine hour Contribution margin per machine hour for each unit of products C = \$97.5 / 1.5 = \$65 per machine hour Therefore, production priority should be products A, products C and products B.
 - 1. Produce 4,500 units of products A, machine hours used = $4,500 \times 2.5 = 11,250$
 - 2. Produce 4,300 units of products C, machine hours used = $4,300 \times 1.5 = 6,450$

Machine hours left for producing product $B = 20,000 - 4,500 \times 2.5 - 4,300 \times 1.5 = 2,300$ machine hours

The number of product B to be produced = 2,300 / 4 = 575 units

Optimum production plan: 1. Produce 4,500 units of products A

- 2. Produce 4,300 units of products C
- 3. Produce 575 units of products B

(Total 30 marks)

4. (a) (i)

Income statement for Humble Co for the year ended 31 December 2018

		I
		ļ
Sales [(15,200 x 95%) × \$350]		5,054,000
Less: Cost of goods sold:		
Direct materials	1,337,600	
Direct labour (\$25 x 3.5 x 15,200)	1,330,000	
Variable manufacturing overheads (15,200 x \$12)	182,400	
Fixed manufacturing overheads	438,000	
	3,288,000	
Less: Closing inventory [(\$3,288,000/15,200) × 760]	(164,160)	(3,119,040)
Gross profit		1,934,960
Less: Variable marketing costs [(15,200 x 95%) × \$25]		(361,000)
Fixed marketing costs ($$200,000 \times 4$)		(800,000)
Net profit		773,960

(ii)

Income statement for Humble Co for the year ended 31 December 2018

Sales [(15,200 x 95%) × \$350]		5,054,000
Less: Variable cost of goods sold:		
Direct materials	1,337,600	
Direct labour (\$25 x 3.5 x 15,200)	1,330,000	
Variable manufacturing overheads (15,200 x \$12)	182,400	
	2,850,000	
Less: Closing inventory [(2,850,000/15,200) × 760]	(142,500)	(2,707,500)
Product contribution margin		2,346,500
Less: Variable marketing costs [(15,200 x 95%) × \$25]		(361,000)
Contribution		1,985,500
Less: Fixed manufacturing overheads		(438,000)
Fixed marketing costs ($$200,000 \times 4$)		(800,000)
Net profit		747,500

(c) Fixed manufacturing costs are sunk costs and therefore not relevant to decision making, but those costs are treated as product costs in absorption costing.

Income statements prepared under marginal costing are more useful for decision making. For example,

they can be used to predict the change in net profit if the sales volume changes by a certain percentage.

(Total 27 marks)