

Association of Accounting Technicians of Sri Lanka

Level III Examination - July 2024

Suggested Answers

(302) MANAGEMENT ACCOUNTING AND FINANCE (MAF)

Association of Accounting Technicians of Sri Lanka

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THE ASSOCIATION OF ACCOUNTING TECHNICIANS OF SRI LANKA Level III Examination - July 2024

(302) MANAGEMENT ACCOUNTING AND FINANCE SUGGESTED ANSWERS

Four (04) compulsory questions (20 Marks)

SECTION - A

Suggested Answers to Question One:

Chapter 7 - Working Capital Management

(a)

		2023/24
Inventory residence period	(364+315)/2/1,239*365	100
Trade receivables residence period	365/2.5	146
		246
(-) Trade payables residence period		(110)
Length of working capital cycle (In Days)		136

(03 marks)

(b)

Improving trade payables settlement period

- Negotiating for a longer credit period than 110 days
- Maintain good relationships with suppliers in terms of operational matters
- Maintain a prompt communication system with the suppliers
- Centralized the payable function.
- Regular reviews of the payable function.

(02 marks) (Total 05 marks)

Suggested Answers to Question Two:

Chapter 01 – Introduction to the Management Accounting, Relevant Cost and Decision Making under risk and uncertainty

Income Statement under Marginal Costing

				Rs.000
Sales	11,800*Rs.3,200			37,760
(-) Cost of sales	Qty	Cost		
Opening stock	1,500	1,670	2,505	
Production variable cost	12,600	1,670	21,042	
	14,100	_	23,547	
Closing stock	2,300	1,670	(3,841)	
Cost of sales		Ī		(19,706)
			•	18,054
Other variable cost				-
Contribution			-	18,054
Fixed cost				
Production OH			8,150	
Non-production OH	SRILA	NKA	3,652	(11,802)
Profit		/		6,252

W 01 - Unit variable production cost

	Rs.
Direct Material	940.00
Direct Labour	600.00
Variable Overhead	130.00
	<u>1,670.00</u>

(Total 05 marks)

Suggested Answers to Question Three:

Chapter 3 - Different Types of Budgets and Planning & Controlling Vs Budgeting

(a) Production Budget		2025- Units
Budgeted sales	(218,500+245,000)*1.12	519,120.00
(+) Closing stock	519,120/12*2	86,520.00
(-) Opening stock		(22,000.00)
Budgeted production		583,640.00

(03 marks)

(b)

- Compel planning
- Co-ordinate activities
- Communicate activities
- Motivate managers to perform well
- Establish a system of control
- Evaluate performance
- Delegate authority to budget holders

(02 marks) (Total 05 marks)

Suggested Answers to Question Four:

Chapter 1- Introduction to the Management Accounting, Relevant Cost and Decision Making under risk and uncertainty

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Project fees 3,500,000

Work permit cost 450,000

Manager Salary

Local Committed cost

Overseas Rs.50,000*6weeks 300,000

Non-manager Salary

Local Committed cost

Overseas Rs.12,500*6weeks*5Nos 375,000

Freelance manager Rs.120,000*6weeks 720,000

1,395,000

Accommodation Rs.400,000*2Months 800,000

Preliminary site-visit Sunk cost -

(2,195,000)

Incremental profit SRILANKA

855,000

It is recommended to accept the project as it generated an incremental profit of Rs.855,000.

(05 marks)

End of Section A

Three (03) compulsory questions (30 Marks)

SECTION - B

Suggested Answers to Question Five:

Chapter 3 - Chapter 3 - Different Types of Budgets and Planning & Controlling Vs Budgeting

Cash Budget	Aug-24	Sep-24	Oct-24
Receipts			
Advance receipt -W1	8,600,000	9,000,000	6,500,000
Interest income @ 9%pa	63,000	87,000	40,000
Total receipt	8,663,000	9,087,000	6,540,000
Payments			
Raw materials - W2	1,120,000	3,500,000	2,625,000
Variable expenses - W3	1,400,000	800,000	550,000
Salaries	1,800,000	1,800,000	1,800,000
Purchase of machine	((-	8,000,000	-
Fixed expenses net of dep*n	1,200,000	1,200,000	1,200,000
Total payments	5,520,000	15,300,000	6,175,000
Net cash flows	3,143,000	(6,213,000)	365,000
Balance at the beginning of the			
month	8,400,000	11,543,000	5,330,000
Balance at the end of the month	11,543,000	5,330,000	5,695,000

W1 - Receipt from orders	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24
Full value of the order Rs.	14,000,000	8,000,000	5,500,000	3,200,000	10,000,000	7,500,000
Advance 50%	7,000,000	4,000,000	2,750,000	1,600,000	5,000,000	3,750,000
Balance 50%	-	-	-	7,000,000	4,000,000	2,750,000
	7,000,000	4,000,000	2,750,000	8,600,000	9,000,000	6,500,000
W2 - Payment for raw						
material	Aug-24	Sep-24	Oct-24			
Full value of the order Rs.	3,200,000	10,000,000	7,500,000			
Payment @ 35% of order						

3,500,000 2,625,000

1,120,000

W3 - Variable						
expenses	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24
Full value of the						
order Rs.	14,000,000	8,000,000 5,50	0,000	3,200,000	10,000,000	7,500,000
Variable OH @						
10%				1,400,000	800,000	550,000
		SPI	(14,00	0,000*10%)	(8,000,000*10%)	(5,500,000*10%)
Variable OH		<i>3</i> K I				
settlement		-	-	320,000	1,000,000	750,000

(10 marks)

value

Suggested Answers to Question Six:

Chapter 5 - Sources of Capital and Cost of Capital

(a)
$$K_e = D_0 (1+g) + g * 100$$

$$K_e = 20*(1+0.12) + 0.12 * 100$$

$$K_e = 30.36\%$$

(02 marks)

(02 marks)

Year	Cash Flows	DF @ 8%	PV	DF @ 12%	PV
0	(103.00)	1.000	(103.00)	1.000	(103.00)
1-5	11.20	3.993	44.72	3.605	40.37
5	100.00	0.681	68.06	0.567	56.74
		NPV	9.78		(5.88)

(03 marks)

(d)

Source	Market Value Rs. Mn	COC %	COC Rs.
Ordinary shares	305.00	30.36%	92.60
Preference shares	184.00	15.22%	28.00
Debentures	216.30	10.50%	22.71
	705.30		143.31

WACC = $\underline{143.31}$ X 100 = $\underline{20.32\%}$

705.30

(03 marks) (Total 10 marks)

Suggested Answers to Question Seven:

Chapter 1 - Introduction to the Management Accounting, Relevant Cost and Decision Making under risk and uncertainty

(a)			
	<u>Mini</u>	<u>Ordinary</u>	<u>Mega</u>
Selling Price	4,600.00	8,500.00	18,000.00
(-) Variable cost			
Material A	2,200.00	4,400.00	8,800.00
Material B	1,500.00	3,000.00	6,000.00
Labour	50.00	80.00	120.00
Variable OH	334.00	435.00	1,300.00
Total variable cost	(4,084.00)	(7,915.00)	(16,220.00)
Contribution	516.00	585.00	1,780.00

Material A	2.00	4.00	8.00
	2,200/1,100	4,400/1,100	8,800/1,100
Contribution- Material A -Kg	258.00	146.25	222.50
Ranking	1	3	2

Product	Production Plan	Material A per Unit	Total
Mini	4,000.00	2.00	8,000.00
Mega	1,500.00	8.00	12,000.00
Ordinary	4,750.00	4.00	19,000.00
			39,000.00
		·	·

(07 marks)

(b)

Purchase price of Material-A per Kg 1,100.00

Contribution per Kg - Ordinary product 146.25

1,246.25

Tight Ltd. should pay an extra amount to the maximum price of Rs.146.25 per kilogram of Material A to purchase extra quantity since this is the additional contribution that the company will generate with one extra kilogram of limiting factor material A.

(03 marks) (Total 10 marks)

End of Section B

Suggested Answers to Question Eight:

Chapter 2 - Process Costing and Digital Costing

(a)

	Raw Material	Labour	Overhead	Total
Finished Goods	81,400	81,400	81,400	-
WIP - Closing	23,000	11,500	5,750	-
Abnormal Loss	2,200	2,200	2,200	-
	106,600	95,100	89,350	
Cost:				
Input	42,200,000	15,400,000	12,700,000	70,300,000
Opening WIP	5,783,800	1,337,600	523,800	7,645,200
Scrap Value	(760,000)	-	-	(760,000)
	47,223,800	16,737,600	13,223,800	77,185,200
	443	176	148	767
Closing WIP	10,189,000	2,024,000	851,000	13,064,000

(06 marks)

(b)

Process 3 Account

Description	Units	Value	Description	Units	Value
Opening inventory	14,600	7,645,200	Output to FG	81,400	62,433,800
D. Material - P 2	100,000	42,200,000	Normal loss	8,000	760,000
D. Labour	-	15,400,000	Abnormal loss	2,200	1,687,400
Variable OH	-	12,700,000	WIP B/F	23,000	13,064,000
	114,600	77,945,200		114,600	77,945,200
WIP C/F	23,000	13,064,000			

(09 marks) (Total 15 marks)

Suggested Answers to Question Nine:

Chapter 6 - Capital Investments Appraisal

(a)

(Rs.'000)

	(RS. 000)				(1/3. 000)	
	0	1	2	3	4	5
Investment	(65,000)	-	-	-	-	5,000
	(5.555)					
Working Capital	(6,000)	-	-	-	-	6,000
Sales (W-1)	-	80,000	129,600	186,624	125,970	108,836
Variable Cost (W-1)	-	(40,000)	(64,800)	(93,312)	(62,985)	(54,420)
Fixed Cost	-	(9,500)	(9,500)	(9,500)	(9,500)	(9,500)
Marketing						
Expenses	-	(8,000)	-	-	-	-
Sales Commission		(4,800)	(7,776)	(11,197)	(7,558)	(6,530)
		(80,000 x	(129,000 x	(186,624 x	(125,970 x	(108,836 x
	-	6%)	6%)	6%)	6%)	6%)
Income Tax (W-2)	-	(435)	(9,382)	(16,909)	(8,903)	(13,016)
	(71,000)	17,265	38,142	55,706	37,024	36,370
DCF @ 15%	1	0.869	0.756	0.658	0.572	0.497
	/=1 00S	4= 455	20.00-	• • • •	24 4-2	10.053
Net Present Value	(71,000)	15,003	28,835	36,654	21,178	18,076

NPV = 48,746

Workings:

(W-1) Sales & Variable Cost

Year	Sales	Variable Cost
1	80,000 (4,000 x 20)	40,000 (4,000 x 10)
2	129,600 (6,000 x 21.6)	64,800 (6,000 x 10.8)
3	186,624 (8,000 x 23.328)	93,312 (8,000 x 11.664)
4	125,970 (5,000 x 25.194)	62,985 (5,000 x 12.597)
5	108,836 (4,000 x 27,209)	54,420 (4,000 x 13.605)

(W-2) Income Tax

	1	2	3	4	5
Profit Before					
depreciation	17,700	47,524	72,615	45,927	38,386
Sales Proceeds	0	0	0	0	5,000
Capital Allowance	-16250	-16250	-16250	-16250	0
	1,450	31,274	56,365	29,677	43,386
Tax @ 30%	435	9,382	16,909	8,903	13,016

(13 marks)

(b) According to the above calculation it is recommended to accept the modification as it generates a positive NPV of **Rs.48,746,000**.

(02 marks) (Total 15 marks)

Suggested Answers to Question Ten:

(A)

Chapter 4 - Standard Costing & Variance Analysis

(a)

DM Price Variance = Actual Quantity (Standard Price – Actual Price)

Material A = 114,800 (400 - 365)

= 4,018,000 F

Material B = 8,648 (2,000 - 2,082)

= 709,136 A

= 4,018,000 F - 709,136 A

= 3,308,864 F

(02 marks)

(b)

Direct Material Mix Variance = Standard Price of DM x [(Total Actual Material Usage x Standard Mix) – (Total Actual Material Usage x Actual Mix)

A
$$S = \begin{cases} 400 & (123,448 \times \frac{3}{3.25} - 123,448 \times \frac{114,800}{123,448}) \end{cases}$$

= 400 (113,952 – 114,800)

= <u>339,200 A</u>

B = 2,000 (123,448 x
$$\frac{0.25}{3.25}$$
 - 123,448 x $\frac{8,648}{123,448}$)

= 2,000 (9,496 - 8,648)

= <u>1,696,000 F</u>

= 339,200 - 1,696,000

= <u>1,356,800 F</u>

(03 marks)

(c)

Direct Material Yield = Standard Price of DM x [(Total Standard Material Usage x Variance Standard Mix) – (Total Actual Material Usage x Standard Mix)

A = $400 (122,200 \times \frac{3}{3.25} - 123,448 \times \frac{3}{3.25})$

= 400 (112,800 - 113,952)

= <u>460,800 A</u>

B = 2,000 (122,200 x $\frac{0.25}{3.25}$ - 123,448 x $\frac{0.25}{3.25}$)

= 2,000 (9,400 - 9,496)

= 192,000 A

= 460,800 A + 192,000 A

= <u>652,800 A</u>

(d) (03 marks)

DL Rate Variance = Actual Hours (Standard Price – Actual Price)

= 27,400 (1,400-1,420)

=S 548,000 A | A | | K | A

(02 marks)

DL Efficiency Variance = Standard Rate (Standard Hours – Actual Hours)

= 1,400 (28,200-27,400)

= <u>1,120,000 F</u>

(02 marks)

Fixed OH Expenditure = Budget FOH – Actual FOH

Variance = 6,425,000 - 6,516,800

= <u>91,800 A</u>

(02 marks)

Chapter 1 - Introduction to the Management Accounting, Relevant Cost and Decision Making under risk and uncertainty

	Product A	Product B	Product C
Selling Price	180	240	260
Variable Cost	(129)	(173)	(203)
Contribution	51	67	57

PV Ratio =
$$\frac{(51 \times 240) + (67 \times 180) + (57 \times 180)}{(180 \times 240) + (240 \times 180) + (260 \times 180)}$$

$$= \frac{12,240 + 12,060 + 10,260}{43,200 + 43,200 + 46,800}$$

$$= \frac{34,560}{133,200}$$

$$= \frac{25.9\%}{5R_{1} \times 240} + (22 \times 180) + (30 \times 180)$$

$$= \frac{12,960}{0.2596}$$

$$= \frac{12,960}{0.2596}$$

$$= \frac{49,923 \times \frac{43,200}{133,200}}{180}$$

$$= \frac{49,923 \times \frac{43,200}{133,200}}{180}$$

Product B =
$$\frac{49,923 \times \frac{43,200}{133,200}}{240}$$

= 67,464 Units

Product C =
$$\frac{49,923 \times \frac{46,800}{133,200}}{260}$$

= <u>67,464 Units</u>

(06 marks)

(Total 20 Marks)



End of Section C

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