MA2 Full Specimen Exam Answers

All questions are worth 2 marks

Question	Correct Answer
1	Service costing
	Job costing
	Associations of inner analysis of a sometime and are prosent likely to use into acation as a social of
	Accountancy firms provide a service and are most likely to use job costing as each of their customers have different needs and each job will have to be costed separately.
2	Where the time series is approximately linear, the line of best fit can be estimated on a
_	scatter graph – True
	Souther Broken True
	Where the time series is not approximately linear, moving averages can be calculated -
	True
	Scatter graphs can be used to estimate a line of best fit, but only where the relationship
	shown is approximately linear. Where no obvious linear relationship exists, moving
3	averages can still be used to estimate the trend. Line J
3	Line
	At the level of activity shown, Line J represents the total contribution, At the breakeven
	point the total contribution will equal the total fixed costs. Below this level, the activity
	will make a loss and above this level the activity will make a profit.
4	Has low sales value relative to joint products
	Accounted for by crediting the net realisable value to the work-in-progress account
	By-products are products which are produced as part of a process, but which are
	incidental and have an insignificant value compared to the main product or products from the process. They are accounted for by treating their net realisable value as a
	deduction in costs which is a credit to the work-in-progress account. The by-product
	does not pick up a share of the joint costs.
5	\$5,200 favourable
	Sales price variance is the difference between the actual sales revenue and the actual
	sales units at the standard selling price. The standard selling price is 50,000 / 5,000 =
	\$10. The sales price variance is $((57,200 - (5,200 \times 10)) = $5,200$. The actual sales are
•	higher; therefore, the variance is favourable.
6	\$375
	The total annual inventory holding cost is calculated as ((order quantity / 2) x holding
	cost per unit). $((250 / 2) \times 3) = 375 .
7	Based on machine hours for Cutting and labour hours for Finishing
	The basis for overhead absorption is generally based on the most important element
	for each department. In this case, machine hours are the most significant element for
	the Cutting cost centre and labour hours are the most significant element for the
	Finishing cost centre.
8	32240
	The depreciation will be based on the cost of the machine less the residual value
	(\$166,200 - \$5,000) = \$161, 200. Year 4 will pick up 20% of the total depreciation. (0.20
	x 161,200) = \$32,240.

9	Unexpected bulk discount offered by current supplier Less material needed due to change in product design
	A general shortage of material causing price increases or inexperienced staff causing more material wastage would result in an adverse material cost variance. An
	unexpected bulk discount or a reduction in the actual material required for
	production would result in a favourable material cost variance.
10	Sales price variance – Favourable Sales activity (volume) variance – Adverse
	Sales of 20,000 were budgeted for, but actual sales were 19,000 resulting in an adverse sales activity (volume) variance. The budgeted sales price was \$6 per unit but the actual sales price was (\$133,000/19,000) = \$7, resulting in a favourable sales price variance.

11	19250			
	The project requires 400kg of material. The 150kg in inventory can be used as part of this. The alternative use for this is to sell it at $40/kg$ which is the relevant cost. For the remaining 250kg, these will have to be purchased at the current purchase price of $53/kg$. The total relevant cost for the project is $150 \times 40 + 250 \times 53 = 19,250$			
12	Department C			
	Dept A 60,000 / 10,000 = 6 Dept B 90,000 / 15,000 = 6 Dept C 120,000 / 12,500 = 9.6 Dept D 80,000 / 10,000 = 8			
	Therefore, Department C has the highest absorption rate.			
13	\$83,000 Using the High Low method, the variable cost = (\$72,000 - \$22,000)/(24,000-4,000) = \$2.50. Using the 4,000 units, the fixed cost = \$22,000 - (\$2.50 x 4,000) = \$12,000. At a production level of 26,000 units, the total cost will be (\$12,000 x 1.5) + (\$2.50 x 26,000) = \$83,000			
14	4.12			
	The cost per tonne/km is calculated by dividing the total cost by the total number of tonne/kms. Total tonne/km = $(4 \times 40 \times 10) + (5 \times 60 \times 12) + (6 \times 65 \times 8) = 8,320$. Cost per tonne/km = $34,295/8,320 = 4.12			
15	1 and 2 only			
	The objectives of cash budgeting are to anticipate shortages and surpluses which help ensure that any funds which may be required will be available as required. Trade receivables relate to credit sales and are not monitored by cash budgeting.			
16	A budget that is adjusted to the actual level of activity achieved			
	Flexed budgets are used for the purposes of variance calculations. The actual results are compared to the flexed budget which has been adjusted to take account of the actual level of activity.			

17	Standard hours of actual output ÷ Actual hours			
	This is the correct calculation for the labour efficiency ratio.			
18	\$24,000			
		Year 1	Year 2	
			80,000 x 1.2 = 96,000	
	Square metres	A: 10,000	A: 10,000	
	Square metres	B: 5,000	B: 5,000	
		C: 0	C: 5,000 (balancing figure)	
		total: 10,000 + 5,000 = 15,000	15,000 x 1.33 = 20,000	
	B will pick up (5,0	00/20,000) x \$96,000 = \$24,000		
19	1, 2 and 3			
		treated differently in cash accour	•	
			is included in accrual accounting.	
			materials may involve credit. Accrual	
	_	d with when the actual	ade receivables while cash accounting	
	payments or rece			
20	12.50	ipto occur.		
	The service unit for a hotel is bed-nights. The cost per bed-night is 1,500,000 / 120,000 = \$12.50			
21	The breakeven point is \$50,000 in sales revenue			
	The Margin of Safety % is 69% (to the nearest whole number)			
	Breakeven point in sales revenue = fixed costs/contribution to sales (C/S) ratio. The C/S			
	ratio = $($16 - $8)/$16 = 50\%$. Breakeven point in sales revenue = $($2.50 \times 10,000)/50\%$ =			
	\$50,000.			
	Margin of safety % = (budgeted sales – breakeven sales)/budgeted sales. This can be calculated in units or in \$sales revenue. Budgeted sales revenue = \$16 x 10,000 =			
	\$160,000. Margin of safety = (\$160,000 - \$50,000)/\$160,000 = 68.75% (rounded to 69%)			
22	703290	(+===,=== +==,===	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
	Contribution = sales – variable costs. Unit contribution = (\$70 – \$29.50 – \$4.80) =			
	\$35.70. Total con	tribution = \$35.70 x 19,700 = \$70	03,290	
23	Fixed overheads	were under-absorbed by \$840		
	Fixed overheads	absorbed (20,000 / 4,000 x 4,20	0) 21,000	
	Actual fixed ove	rheads	21,840	
	Under absorbed	fixed overheads	840	

24	The margin of safety will decrease, and the break-even point will increase
	Breakeven point = fixed costs/contribution per unit. If the cost of raw materials increases, the contribution per unit will fall, resulting in a higher breakeven point. Margin of safety = budgeted sales – breakeven sales. If the breakeven point is higher, the margin of safety will be lower.
25	126
	If 90 bags equate to 25%, (90/0.25 x 0.35) = 126 bags relates to 35%.
26	\$8.65
	Using the high low method, the variable cost will be $(51,652 - 47, 328) / (2,900 - 2,400)$ = \$8.65
27	Percentage sales volume of each car model for the last 12 months – Pie chart
	The general trend of electric car sales over the last 12 months – Line graph
	Pie charts are used to show the relative sizes of a total amount, such as the percentage sales value of each type of car. A line graph would not show this clearly. A line graph, however, would be suitable for showing a general trend over time.
28	Profit lower Inventory valuation lower
	When inventory levels are increasing, marginal cost will give a lower profit. The inventory valuation using marginal costing is always lower than the inventory valuation using absorption costing.

29	\$684,940
	Cash receipts = (opening trade receivables less bad debt write off) + sales – closing trade receivables.
	(206,900 - 4,360 + 724,000 - 241,600) = \$684,940
30	Material only
	30,000 units require $(30,000 \times 5) = 150,000 \text{ kg of material and } (30,000 \times 11) = 330,000 hours of direct labour. With 340,000 hours of labour and 140,000kg of material available, only material is a limiting factor.$
31	115
	The capacity utilisation ratio can be calculated as the activity ratio / efficiency ratio. $(1.035 / 0.90) = 1.15 = 115\%$
32	When the total contribution is equal to total fixed costs
	Breakeven occurs when the total contribution is equal to the total fixed costs. Any contribution above this level will result in a profit.
33	The annual depreciation charge is not a relevant cost Fixed costs would have a relevant cost element if a decision causes a change in their total expenditure
	Material and labour can have an opportunity cost. Material held in inventory must be taken account of when calculating relevant cost.

34	\$410				
	When LIFO is used, the last items received in to stock are the first to be issued to				
	production. The issue on Sept 9 would be made up of 50 units from Jun 6 and 20 units				
	from Jun 4. $(50 \times 6) + (20 \times 5.5) = 410 .				
35	\$2,600 Positive				
	NPV = PV of cash flows – initial investment.	((4,000 x 5.6	55) – 20,000	0) = \$2,600	positive.
36	243				
	The activities were activities at a six and a		. . : .		
	The minimum payment will be given when the equal to 75 (\$45/\$0.60), so on Tuesday, W		•		
	for the week will be $(90 \times 0.6) + 45 + 45 + 45$	•		y. The total	carriings
37	\$12,000	- (00 moto	7 7-101		
	7-3/33				
	The value of the investment now = 15,972 /	$1.1^3 = $12,$	000		
38	Product D, Product B, Product C, Product A	\			
	The ranking of products should be done bas		ibution per	unit of limi	ting
	factor. In this case the limiting factor is skill	ed labour.			
		Product	Product	Product	Product
		А	В	С	D
	Contribution	2.80	2.60	1.90	2.40
	Hours of skilled labour per unit	1.4	1.2	0.9	1.0
	Contribution per hour of skilled labour	2.00	2.17	2.11	2.40
	Ranking	4	2	3	1
	Therefore, the products should be made in	the order: D), B, C, A.		
39	Part of a business where management are	responsible	a for decision	ns regardii	ng the
	purchase of non-current assets	гезропзык	e for accisio	Jiis i egai aii	ig tile
	parenase of non-euricine assets				
	·	An investment centre is a part of a business in which the manager is responsibility for			
	costs, revenue and investment decisions.	costs, revenue and investment decisions.			
40	1, 2 and 3				
				1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	
	In selecting a communication method (letter, email, telephone call etc) it is important to consider the cost of the method, the degree of confidentiality required, and the				
	speed of delivery required.				
41	Depreciation of a non-current asset – No				
	Payment for the purchase of a non-current asset - Yes				
	Depreciation is a non-cash item so would n				
	the purchase of a non-current asset would involve the movement of cash and would the purchase be included in a cash burdent.				d would
42	therefore be included in a cash budget.	~ uathau tha	n huuina is		
42	Saving per machine hour by manufacturing	g ratner t n a	ın buyıng-li	1	
			noods to o	ncure that t	hev are
	As machine hours are the limiting factor, the	As machine hours are the limiting factor, the company needs to ensure that they are making the best use of this limited resource. This means that when the organisation is			
	_				
	_	e. This mear	ns that whe	n the orgar	isation is

	internally rather than buying in.
43	88500
	Closing inventory = opening inventory + production – sales. $(0 + 400,000 - 394,000) = 6,000$. Under marginal costing, inventory is valued at variable production cost. The value of the closing inventory is therefore $6,000 \times 14.75 = $88,500$.
44	375 kg The minimum inventory level = reorder level – (average usage x average lead time)
	((1,500 – (450 x 2.5)) = 375kg.
45	Non-negotiable
	A certificate of deposit is a fixed term investment with a specified interest rate issued by a bank.
46	The difference in units between the expected sales volume and the break-even sales volume The margin of safety is calculated as the budgeted (expected) sales – breakeven sales.
	It can also be calculated as a %.
47	4
	Payback is achieved when cash inflows from a project equal the cash outflows. Cash outflows = \$120,000 As cash inflows are regular, payback can be calculated as \$120,000/\$30,000 = 4 years
48	Giving more credit to customers Purchasing new non-current assets
	Giving more credit to customers and purchasing new non-current assets will involve an outflow of cash which will contribute to a cash deficit. Taking more credit from suppliers and reducing inventories will improve operational cash flows which should in turn lead to an increased cash surplus.
49	2 and 3 only
	Overtime premium is an indirect cost so would have no effect on direct labour costs.
	Higher skilled labour would cost more and if less materials were used; the material variance would be favourable. Statement 4 does not tie in with the variances shown.

50	2 and 4
	A treasury department would generally be involved in currency management and the
	investment of surplus funds. The credit control department or general finance function would usually deal with credit control and debt collection.