Pearson LCCI Wednesday 15 January 2020 Time: 3 hours Paper Reference ASE20098 Certificate in Cost and Management Accounting (VRQ) Level 3 Please check the examination details above before entering your learner information Learner name Centre/Learning Provider ID L P Pearson Learner ID Learner National/Passport ID (if required) You do not need any other materials. Total Marks

Instructions

- Use **black** ink or ball-point pen
 - pencil can only be used for graphs, charts, diagrams, etc.
- **Fill in the boxes** at the top of this page with your name, Pearson learner ID, centre/learning provider ID and your learner national/passport ID (if required).
- Answer **all** questions.
- Answer the questions in the spaces provided
 - there may be more space than you need.
- Answers should be given to the appropriate degree of accuracy.

Information

- The total mark for this paper is 100.
- The marks for **each** question are shown in brackets
 - use this as a guide as to how much time to spend on each question.
- Calculators may be used.

Advice

- Read each question carefully before you start to answer it.
- Try to answer every question.
- You are advised to show your workings.
- Check your answers if you have time at the end.

Turn over ▶



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1		ufactures a product, CAI puts used in December	L32, and uses process costing. Information 2019 was available.	
	Material X Material Y Material Z Direct labour Overheads	7 200 kg costing 4 800 kg costing 1 500 hours costing	\$4.25 per kg \$5.65 per kg	
	The expected out	tput is 92.5% of materia	al inputs.	
	Any losses can be	e sold at a value of \$1.7	5 per kg.	
	During Decembe	er 2019, the amount of g	good output produced was 22 760 kg.	
	(a) Prepare the p	rocess account for Calik	oan Ltd for December 2019	
				(10)

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(b) Prepare the following ledger accounts:	(2)
Normal loss account	
Abnormal loss/gain account.	
(c) Explain two differences between joint products and by-products.	(4)
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	ment of the business of ducts based on kg of ou	one disadvantage of appoint out.	ortioning
costs to its joint pro-	ducts based on kg of ou	reput.	(2)
(e) Explain two reasons	s why a business might (use process costing.	
			(4)
		(Total for Questio	n 1 = 22 marks)



(1)

2 Prospero Ltd produces a range of products including the JT44. Two budgets had been produced for December 2019.

Units produced and sold	Budget 1 65 000 \$	Budget 2 80 000 \$
Revenue	611 000	752 000
Costs		
Materials	182 000	224 000
Labour (note 1)	74 250	75 000
Heat, light and power (note 2)	22 500	24 000
Machine hire (note 3)	14 400	14 400
Production overheads (note 4)	162 600	166 350
Non-production overheads	223 450	223 450
Total costs	<u>679 200</u>	727 200
Net profit/(loss)	<u>(68 200)</u>	24 800

Notes

- 1. Labour is a semi-variable cost. Employees are paid an output-related bonus of \$0.05 per unit and the rest is a fixed cost.
- 2. Heat, light and power is a semi-variable cost where the fixed element is \$16 000
- 3. The company hires machines, each of which has a capacity of 30 000 units per month.
- 4. Production overheads is a semi-variable cost.
- (a) Calculate the:
 - (i) labour fixed cost

(ii) heat, light and power variable cost per unit
(1)

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(iii) cost of hiring one machine	(1)
(iv) fixed and variable elements of the production overheads.	(4)



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December 2019, Prospero Ltd produced and sold 80 000 units of JT44 o) Calculate, for December 2019, the break-even point in units and \$.	
of edicalate, for December 2017, the Steak even point in arms and q.	(6)
c) Calculate, for December 2019, the margin of safety in units and as a percentage of sales.	
of sales.	(2)

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The directors of Prospero Ltd are considering replacing the JT44 with the FL26 Information about the FL26 is available. 110 000 units will be sold for \$13.50 per unit. Variable costs will be \$5.30 per unit. Fixed costs will be \$767 520 per month. (d) Prepare a break-even chart for the FL26 (on the graph paper provided) that shows: (6) output from 0 to 110 000 units the break-even point in units the margin of safety in units the profit/loss that will be made each month if 110 000 units were sold. Workings



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(e) Evaluate whether Prospero Ltd should produce the JT44 or the FL26, using the information provided and your answers in (b), (c) and (d).	
	(5)
(Total for Question 2 = 26 m	narks)

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3 Ferdinand Ltd has two production departments (Manufacturing and Packing) and two service departments (Stores and Administration). Information for December 2019 is available.

Ş
8 000
12 600
4 700
3 500
2 900
11 100

Information for each of the departments is available.

	Manufacturing	Packing	Stores	Administration
Floor area (square metres)	400	200	300	100
Machine value (\$000)	775	185	40	-
Electricity usage (%)	45	20	10	25
Stores requisitions (number	240	160	-	-
Machine hours	1 500	300	-	-
Direct labour hours	900	1 600	-	-
Other overheads (allocated	4 420	2 780	1 785	2 115

The company policy is to reapportion service department overheads to the production departments, using the direct method, on the following bases.

Stores – number of stores requisitions.

Workings

Administration – 50% to each production department.

All calculations should be rounded to the nearest \$.

(a) Complete the Overhead Distribution Table for Ferdinand Ltd.

(10)

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Overhead Distribution Table

Fxnonce		Total		Departments \$	ments	
		٠	Manufacturing	Packing	Stores	Administration
Rent and rates		8 000				
Machine depreciation		12 600				
Store salaries		4 700				
Administration salaries		3 500				
Heat, light and power		2 900				
Other overheads	Allocation	11 100	4 420	2 780	1 785	2 115
Sub-total						
Reapportionment						
Stores overheads						
Administration overheads	10					
Total						

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nearest cent.				
				(2)
he actual overhead		machine and direct	labour hours worked	in
receilibei 2019 wei	Manufacturing	Packing		
actual overheads Machine hours	\$30 300 1 685	\$14 630 412		
abour hours	970	1 643		
			erheads for Ferdinand L	.td
		er absorption of ove		
c) Calculate the ov	er absorption or und	er absorption of ove		.td (4)
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4	Portia Ltd manufactures the PS97 and has set a production target for its 24 production line staff of 50 units of PS97 per labour hour.	
	Each worker is contracted to work 170 hours per month.	
	During December 2019, 247 680 units of PS97 were produced and a total of 4 290 labour hours were worked.	
	(a) Calculate, for December 2019, the:	
	(i) standard hours for actual production	(1)
	(ii) production efficiency ratio	(2)
	(iii) production capacity ratio	(3)
	(iv) production volume ratio.	
	(iv) production volume ratio.	(2)



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 There is a policy that all work carried out on office computers is saved at least once per hour and files are backed up at the end of the day. When checked, there was 97% compliance with this policy. There is a policy that office computers should be logged out or 'locked' when users are not at their desks. When checked, there was a 36% compliance with this policy. Employees only have access to the parts of the management information system needed to perform their job role. Employees are required to change their original password every 30 days – 75% of users were still using the original password, which is the employee's initials followed by their date of birth. Employees should only use encrypted USB (memory) sticks provided by the company – the investigation found no examples of employees using their own USB (memory) sticks. The firewall and virus protection is three years old. 	b) Explain what is meant by the term standard cost .	(2)
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safety, security and confidentiality of information. (6)	The firewall and virus protection is three years old.	
	·	
	Effective controls	(6)



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Ineffective controls	
Conclusion	
	(Total for Question 4 = 16 marks)



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5 Miranda Ltd had the following information relating to its production of product MS88 for December 2019.

	Budget		Act	ual
Production	24 000) units	22 600	units
Materials	39 000 kg	\$210 600	37 180 kg	\$195 195
Direct labour	7 560 hours	\$71 820	6 890 hours	\$66 144
Overheads		\$166 380		\$161 490

		1 1			
Material	and	lahour	are	variahi	A COSTS
MIGULIA	ana	IUDUUI	uı C	variabi	C COSIS

Overheads are fixed costs.

- (a) Calculate, for December 2019, the:
 - (i) material usage variance

(ii) material price variance	(ii)	material	price	variand	e
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(2)

(3)





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(iii) labour efficiency variance	(3)
(iv) labour rate variance	(2)
(v) overhead expenditure variance.	(1)
(b) Calculate the total standard cost of production for the 22 600 units produced in December 2019.	(2)



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(c) Prepare the Cost Reconciliation Statement using the variances that you calculated in (a).

(4)

COST RECONCILIATION STATEMENT				
			\$	
Standard cost of actual production				
Variances	Favourable \$	Adverse \$		
Direct material usage				
Direct material price				
Direct labour rate				
Direct labour efficiency				
Fixed overhead expenditure				
Total variance				
Actual cost of actual production				



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In November 2019 , Miranda Ltd used direct material (d) State one possible effect of using lower quality following variances for November 2019.	direct material on each of the
Direct material price	(3)
Direct material usage	
• Direct material usage	
Direct labour efficiency	
	(Total for Question 5 = 20 marks)
	TOTAL FOR PAPER = 100 MARKS



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