REQUIRED				
(a) Define each of the following terms:		ine each of the following terms:		
	(i)	contribution per unit		
			[1]	
	(ii)	stepped costs		
			[1]	
	(iii)	margin of safety.		
			[1]	
(b)	Sta	te two benefits of using marginal costing.		
	1			
	2			
			[2]	

G Limited manufactures a single product type at one of its factories. The company uses marginal

4

costing.

Additional information

The following budgeted information is available for September 2022.

Selling price per unit \$59

Direct materials per unit 8 kg at \$2.70 per kg
Direct labour per unit 4 hrs at \$8.20 per hour

Fixed costs per month \$18400

All units produced are sold.

REQUIRED

(c)	Calculate the monthly break-even point in units.
	rai
	[3]

Additional information

The directors hope to increase demand by improving the product.

The following information is available.

- 1 Current production of the original product is 7200 units per month. This represents 90% of normal capacity.
- 2 Direct materials will cost \$3 per kg for the improved product. Each unit of the improved product will require 15% more material.
- 3 The selling price of the improved product will be \$65.
- 4 It is expected that monthly production will increase by 20%.
- 5 The factory can operate in overtime conditions. Direct labour is paid 1.5 times the normal rate in overtime conditions.
- 6 An additional machine costing \$40 000 will be required. Non-current assets are depreciated by 15% per annum.

REQUIRED

(d)	Prepare a marginal costing statement to show the monthly forecast profit if the improved product is made.
	[7]

Additional information

At a **second** factory the company manufactures **another** single product type. The following information is available.

	\$
Direct material per unit	13
Direct labour per unit	11
Other variable costs per unit	3
Selling price per unit	42
Fixed costs per week	12000

The factory uses 10 machines, each producing 300 units per week. The directors are aware that problems have arisen with 4 machines which require urgent repairs. These machines will be taken out of production for 8 weeks.

The directors are considering two options.

Option A: Buy in goods

The goods will be provided by an overseas supplier at \$34 per unit.

Total delivery costs of \$4200 for 8 weeks will be charged.

The supplier can only provide 75% of the lost production.

(e) Calculate the profit for the 8 weeks for each option.

Option B: Hire replacement machines

Only two replacement machines are available at a cost of \$150 per machine per week.

The machines will only be available for 7 weeks.

Staff will require training on the replacement machines at a **total** cost of \$700.

REQUIRED

(i)	Option A
	[4]

(ii)	Option B
	[4]

(f)	Advise the directors which option they should choose. Justify your answer by considering both options.
	[7]