		imited manufactu ting.	res a single product at one	of its factories. T	he company	uses marginal
ı	REC	QUIRED				
(	(a)	State two benefit	ts of using break-even analys	is.		
		1				
		2				
	(L)	Define the terms "	Gived eachs'			[2]
(	(D)	Define the term '	nixed costs .			
					•••••	
	A .l .				•••••	[2]
		ditional informati		anadu atian		
	ıne	following details a	are available for one month's	production:		
			Fixed costs Break-even point	\$70 000 8 000 units	<b>;</b>	
			Selling price per unit Margin of safety	\$20 \$80000		
ı	REC	QUIRED				
(	(c)	Calculate the var	iable cost per unit.			
						[3]

# **Additional information**

The directors have decided to increase output by 20%. All the output can be sold.

New machinery will be purchased at a cost of \$72000. The new machinery will have a useful life of 5 years. The directors also plan the following:

- 1 Variable costs will remain unchanged.
- 2 Selling prices will be reduced by 5% to ensure that all production can be sold.
- 3 The cost of the new machinery will be financed by the issue of 10% debentures.

# **REQUIRED**

(d)

(i)	Calculate the monthly revenue based on this plan.
	[2]
(ii)	Prepare a budgeted marginal costing statement for one month based on this plan for total production.
	[6]

# **Additional information**

At another factory the company manufactures two products: X and Y. Both products use the same material.

The following information is available for one month's output.

	X \$	Y \$
Selling price per unit	32	44
Direct material per unit	10	14
Direct labour per unit	12	19
Output	5000 units	4000 units

This factory's fixed costs are \$58000 per month.

In April 2022 the supplier of direct materials informed the company that it would only be able to supply 75% of the normal monthly requirement in June 2022.

# **REQUIRED**

(e)	Prepare a budgeted production plan for June 2022 to show the maximum profit available.
	[7]

# **Additional information**

A director has suggested an alternative plan that the factory should produce extra units in May 2022 to make up for the shortfall of either Product X or Product Y in June 2022. Any additional production will require overtime to be worked.

The following information is available:

- All material requirements can be met in May 2022 but the material has to be converted into finished product immediately as purchased.
- 2 Overtime is paid at 1.5 times the normal rate.
- 3 The extra units will be stored at a cost of \$4000.

### **REQUIRED**

(f)	Calculate the May 2022.	profit or	loss to	be made	on the	extra	units	if this	plan is	implemented	in
										Г	31

(g)	Advise the directors whether they should use the original budgeted production plan in (e) or whether they should increase production in May 2022 as suggested by the director in his alternative plan. Justify your advice.
	[5]