SECTION 3 (80 marks)

Answer **ONE** question

8. Marginal and Absorption Costing

(a) Whelan Ltd, produces a single product. The company's profit and loss account for the year ended 31/12/2019, during which 26,000 units were produced and sold, was as follows:

	€	€
Sales (26,000 units)		1,040,000
Materials	221,000	
Direct labour	364,000	
Factory overheads	166,000	
Administration expenses	115,500	
Selling expenses	<u>87,900</u>	<u>954,400</u>
Net profit		<u>85,600</u>

The materials and direct labour are variable costs.

Apart from a sales commission of 6% of sales, selling and administration expenses are fixed.

Factory overheads are mixed costs, and have behaved in the past as follows:

Year ended	Production (units)	Factory Overheads in €
31/12/2018	21,000	148,500
31/12/2017	16,400	132,400
31/12/2016	13,800	123,300

Required:

- (i) Calculate the variable and fixed elements of factory overheads using the high/low method.
- (ii) Calculate the break-even point and margin of safety for Whelan Ltd.
- (iii) Calculate the number of units that must be sold at €45 per unit to provide a profit of 15% of the sales revenue earned from these same units.
- (iv) Calculate the profit Whelan Ltd would make if it reduced its selling price by 5%, increased fixed costs by 4% and increased the sales commission percentage to 7% and thereby increasing the number of units sold by 20%, with all other cost levels and percentages remaining unchanged.
- (v) Explain what is meant by a step fixed cost and give an example.

(b) Aldridge Ltd, produced 15,000 units of product A during the year ended 31/12/2019.12,000 of these units were sold at €4.20 per unit. The production costs were as follows:

Direct materials	€0.70 per unit
Direct labour	€0.60 per unit
Variable overheads	€0.55 per unit
Fixed overhead costs per year	€8,400

Required:

- (i) Prepare profit and loss statements under marginal costing and absorption costing principles for Aldridge Ltd.
- (ii) Outline the differences between marginal and absorption costing.Indicate which method should be used for financial accounting purposes.Explain your answer.

(80 marks)