Design & Technology

Stages of a products life cycle

Materials required for questions

- Pencil
- Rubber
- Calculator

Instructions

- Use black ink or ball-point pen
- Try answer all questions
- Use the space provided to answer questions
- Calculators can be used if necessary
- For the multiple choice questions, circle your answer

Advice

- Marks for each question are in brackets
- Read each question fully
- Try to answer every question
- Don't spend too much time on one question

Good luck!

Q1. What happens to a product when it reaches the maturity stage of the product life cycle?			
Α	Sales revenue grows over time		
В	Sales revenue declines over time		
С	Sales revenue is constant over time		
Q2. Which of these statements about product life cycles is true?			
A	The length of every product's life cycle is the same		
В	The length of each phase in a product's life cycle can be different		
С	A product will be withdrawn once it enters maturity		
Q3. In which phase of the product life cycle is a product launched?			
Α	Growth		
В	Maturity		
С	Introduction		
Q4. What is the purpose of a product extension strategy?			
Α	To lengthen the life cycle of a product		
В	To prevent a product being successful		
С	To lengthen the introduction phase of a product's life cycle		

	ch of these extension strategies would be most likely to succeed in g the life cycle of a breakfast cereal?
Α	Making the breakfast cereal available in a new flavour
В	Increasing advertising of the breakfast cereal
С	Increasing the price of the breakfast Cereal
Q6. Whic	ch of the following statements is true?
Α	Disposal is the final step in a product life cycle
В	Using cheapest material will always Extend a product life
С	Maturity is when the sales start to decline
	cuss cost, sales, profit and market implications to the cturer during the various stages of a products life cycle (9

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Answers

- Q1. C
- **Q2.** B
- Q3. B
- Q4. A
- Q5. A
- Q6. A

Q7.

Introduction stage

- Set-up and marketing costs
- Low output high marginal costs
- Advertising / attracting early adopters
- Slow sales / uptake
- Small market share

Growth stage

- Increasing consumer awareness
- Increasing popularity and sales
- Product tweaking and updates in response to feedback
- Increasing market share
- Development costs covered
- Increasing economies of scale
- Can price goods to give increasing competitive edge
- Higher marginal profit
- Competitors take an interest in product success

Maturity stage

- Market saturation achieved
- Competitors release competing products
- Levelling/slowing of demand
- Price adjustments
- Redevelopment / updates to increase demand
- Facelifts
- Incorporation of updated technology
- Preparation for replacement models

Decline stage

- Reduction in sales
- Impacts on profits
- Development costs fully covered

- Eventual loss of profitability
- Withdrawal from market