

Answer ONE question only.

1 In many houses the hall, landing and stairs can be the most difficult area to decorate.

A system to allow a decorator to safely reach all heights in order to paint and hang wallpaper is required.

An image has been removed due to third party copyright restrictions

Details:

An image of a set of stairs

Data

- Market research has indicated that there is a potential demand for an initial minimum of 5,000 products.
- The maximum height a decorator must reach is 6 metres.

Theme: Painting and decorating.

3 When householders go on holiday, particularly during the summer they are faced with the problem of how to ensure their outdoor hanging basket and tub plants receive sufficient water.

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Details:

An image of a doorway with hanging baskets and pot plants

A system that ensures all outdoor hanging basket and tub plants are correctly watered is required.

Data

- Market research has indicated that there is a potential demand for an initial minimum of 5,000 products.
- External mains water and electricity supplies are available.

Theme: Garden maintenance.

2 All large vehicles are required by law to have a reversing alarm fitted. However, caravans are often reversed without any warning system.

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Details:

An illustration of a car towing a caravan

A system that alerts people when a caravan is being reversed is required.

Data

- Market research has indicated that there is a potential demand for an initial minimum of 5,000 products.

Theme: Alarms.

3 When householders go on holiday, particularly during the summer they are faced with the problem of how to ensure their outdoor hanging basket and tub plants receive sufficient water.

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Details:

An image of a doorway with hanging baskets and pot plants

A system that ensures all outdoor hanging basket and tub plants are correctly watered is required.

Data

- Market research has indicated that there is a potential demand for an initial minimum of 5,000 products.
- External mains water and electricity supplies are available.

Theme: Garden maintenance.

ALLOCATION OF MARKS FOR PAPER 2525/02

(a) specification points. [16]

(b) initial ideas. [38]

(c) features suitable for development [8]

(d) communication skills and techniques. [10]

[Total : 72]

All dimensions are in mm.

Where necessary, calculators may be used.

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Circle the question number you are answering

1 2 3 4 5

(a) A list of **eight** qualified specification points, directly related to the given situation, that initial ideas should meet. [16]

1 _____

2 _____

3 _____

4 _____

5 _____

6 _____

7 _____

8 _____

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(b) Initial ideas:

- Range of ideas. [10]
- Design ideas relating to the functional aspects raised in your specification. [5]
- Quality of design thinking relating to the volume production and wider market issues. [5]
- Consideration of construction. [5]
- Consideration of specific materials and components (may include calculations.) [5]
- Consideration of dimensional detail (may include calculations). [3]
- Evaluation of the suitability of the ideas with reference to the Specification. [5]

[Total : 38]

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(c) Features suitable for development.

- Appropriate features identified and clearly described. [4]
- Appropriate justification of the features identified with reference to the Specification. [4]

[Total : 8]

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2524/02 PRODUCT DESIGN
2525/02 SYSTEMS AND CONTROL

CANDIDATE NAME _____

CANDIDATE NUMBER _____

CENTRE NUMBER _____

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