

NAMIBIA SENIOR SECONDARY CERTIFICATE

DESIGN AND TECHNOLOGY HIGHER LEVEL

8340/2

PAPER 2

1 hour 45 minutes

Marks 60

2019

Additional Material: A3 drawing paper
Non-programmable calculator
Standard drawing equipment

INSTRUCTIONS AND INFORMATION TO CANDIDATES

- Answer on the separate A3 drawing paper provided.
- Write your Centre Number, Candidate Number and Name on all the work you hand in.
- Do not use correction fluid.

- There are **three** questions in this Question Paper.
- Answer **one** question only.

- At the end of the examination, staple all your work securely together.
- The number of marks is given in brackets [] at the end of each question or part question.
- You may use a non-programmable calculator.

This document consists of **6** printed pages and **2** blank pages.



Republic of Namibia

MINISTRY OF EDUCATION, ARTS AND CULTURE

Answer your chosen design question to the following design structure.

On your first sheet of paper:

- (a) Produce an analysis of the given situation, which recognises factors relevant to the situation. [5]
- (b) From the analysis produce a detailed duplication specification of the design requirements. [5]
- (c) Use detailed notes and sketches to show a range of design solutions. [15]

On your second sheet of paper:

- (d) Use sketches and notes to show the development, reasoning and composition of ideas into a single design proposal. [20]
- (e) Give details of materials and technical aspects. [5]

On your third sheet of paper:

- (f) Produce a presentation drawing of your final solution, which shows all the principal features. [10]

[60]

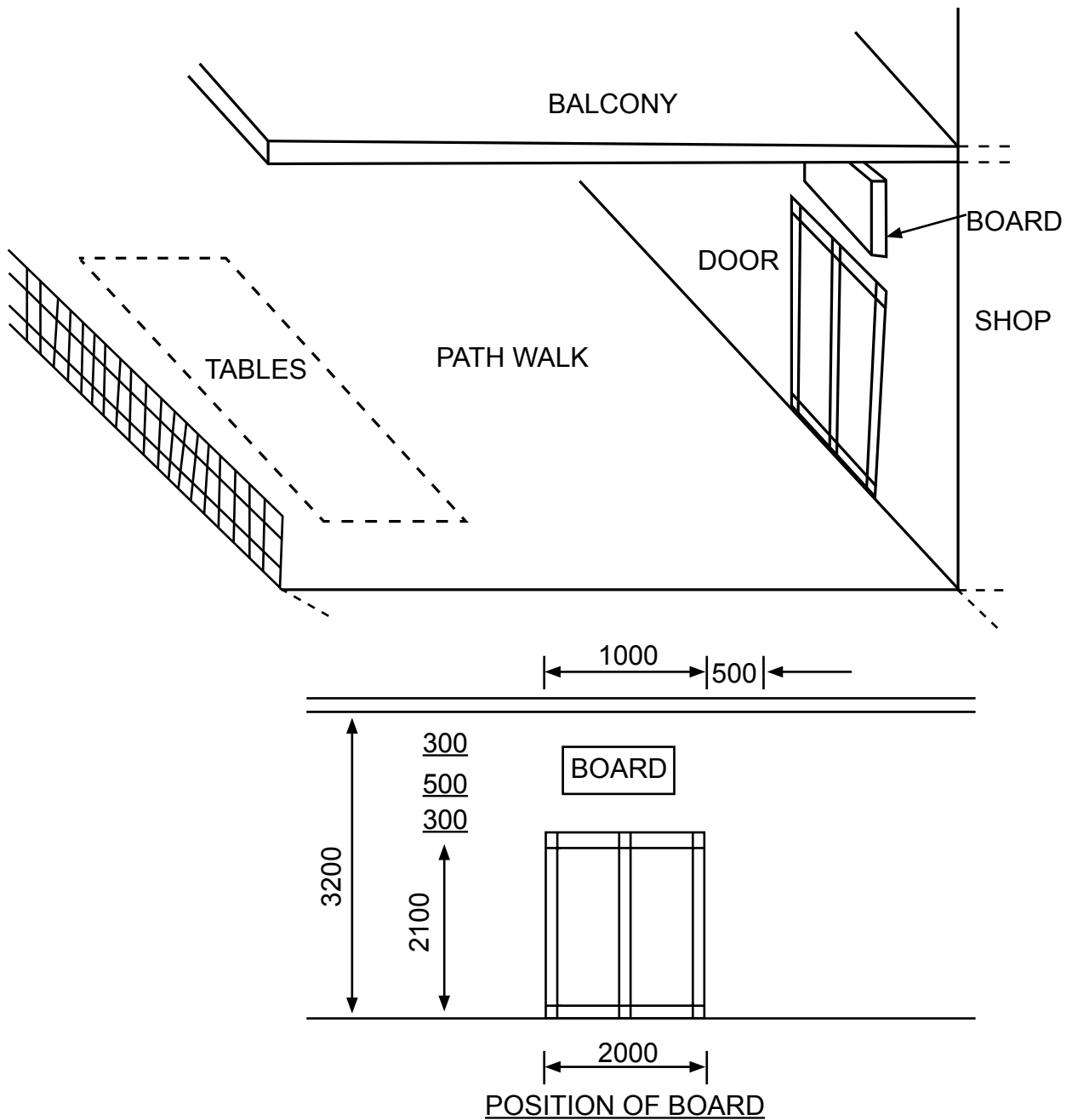
Situation

Mr. Jimmy just moved into a new place of business. He is an enthusiastic restaurateur and specialises in pizzas.

Answer **one** question only to the design structure shown on page 2.

1 Design Communication

Mr. Jimmy wants a big board to advertise his new place of business at the launch.



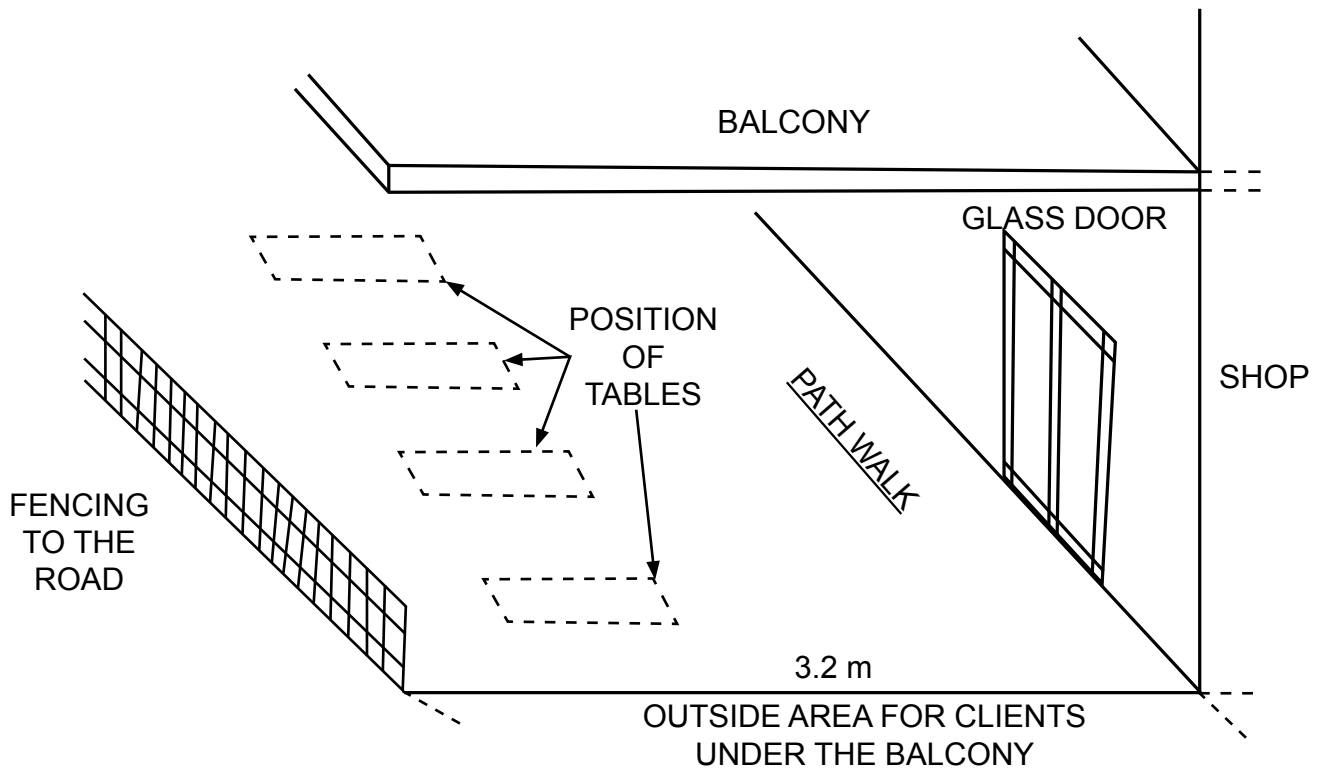
A design for a three dimensional name board is required to identify and advertise the place at the launch. The design should include the following information:

- Overall size of the board: length 1000 x height 500 x depth 100
- The name of the business “Jimmy’s Pizzas”
- An attractive logo
- A telephone number
- The board should be electrically lit at night.

[60]

2 Resistant Materials

The diagram shows the outside area under the balcony where the tables will be positioned in front of the shop.



Design a picnic table with **two** benches as **one** unit. The unit should be made of wood.

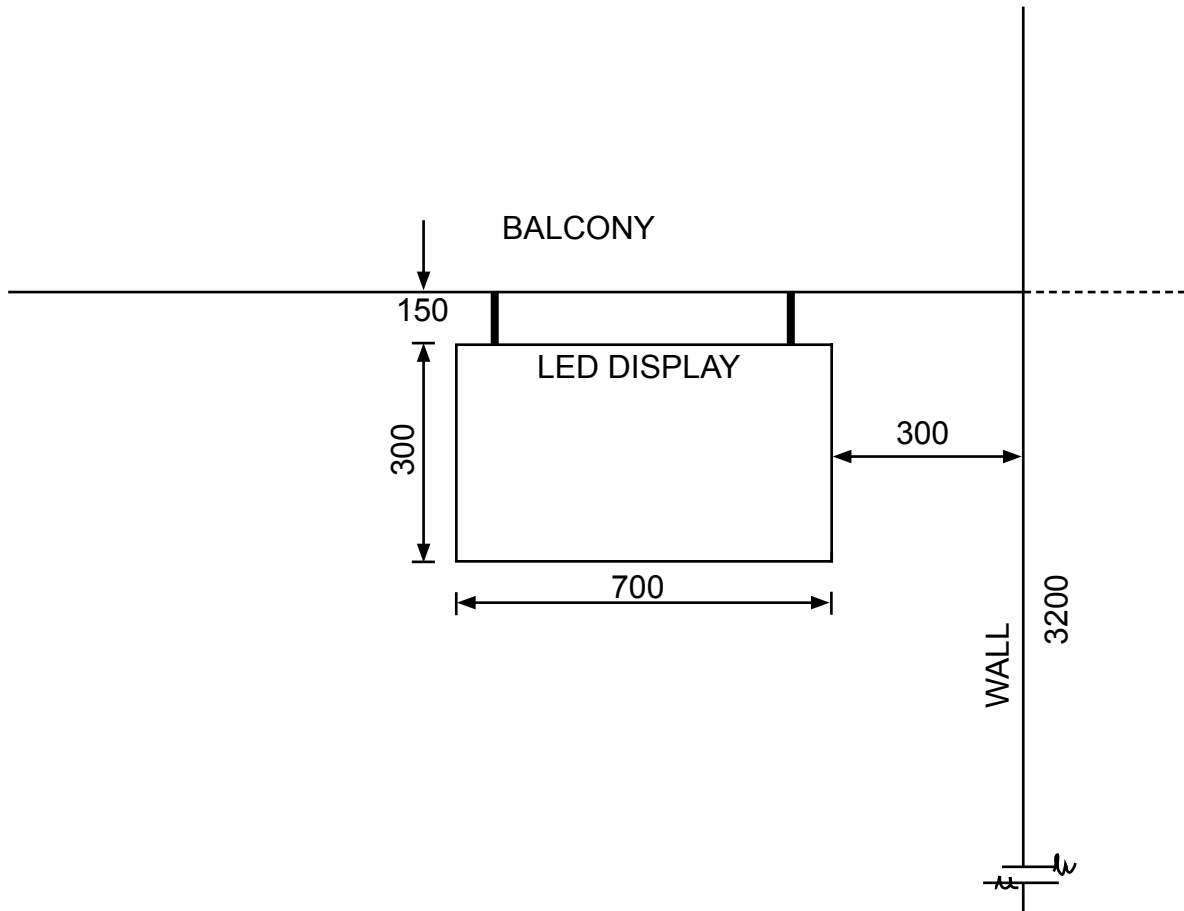
- The table should be big enough to accommodate six people comfortably.
- The two benches on each side of the table should seat three people each comfortably.
- The two benches should be fixed to the table as **one** unit.

[60]

3 Technology

Mr. Jimmy decided that he wants to change the elementary electrically lit board to a modernised version.

The diagram indicates the position of the board.



A design for an LED scrolling display board is required to include:

- The name of the restaurant, Jimmy's Pizzas
- A logo that flashes
- A circuit diagram that provide this moving information
- Safety considerations

[60]

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