

DESIGN AND TECHNOLOGY HIGHER LEVEL

8340/2

PAPER 2

1 hour 45 minutes

Marks 60

2020

Additional Material: A3 drawing paper for
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.

HIGHER LEVEL

This document consists of **5** printed pages and **3** 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 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]

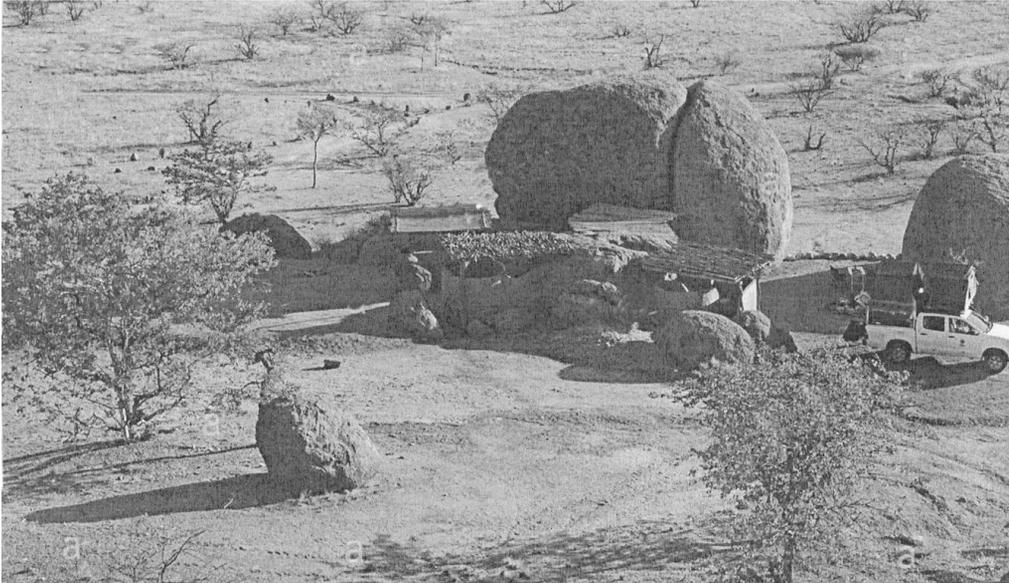
[60]

Situation

Namibia is a great tourist attraction. Most tourist prefers the vast and exclusive scenaries. Therefore the need arises to build more camping sites.

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

1 Design Communication



Design the layout for a campsite, that has ten individual bays.

The layout should include:

- toilet and shower facilities
- braai (barberque) facilities
- water outlets
- a communial swimming pool.

[60]

2 Resistant Materials

People going for a shower take several toiletry items with them and require somewhere to sit while dressing.



Design a unit that will fit into the shower room.

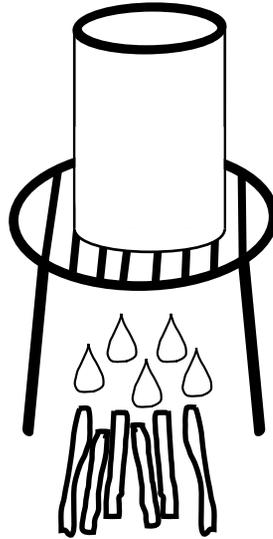
The unit should:

- stand free
- have space to put your toiletries on
- have a mirror
- have space to hang your towels
- have a built-in seat to sit on.

[60]

3 Technology

Since the campsite will be in a remote area, no electricity is available.



Design a device to supply the shower with hotwater.

The device should:

- have an inlet from the cold water source
- heat the water before you open the shower
- be a simple system
- be easy to manufacture.

[60]

