

# Tasmanian Secondary Assessment Board

## Tasmanian Certificate of Education

### External Assessment

2000

**TE872 HOUSING AND DESIGN**

**Time: Three Hours**

On the basis of your performance in this examination, the examiners will provide a rating of A, B, C or D on each of the following criteria taken from the syllabus statement:

- Criterion 5** Demonstrate knowledge and understanding of the practical, sociological and psychological need for shelter for individuals, families and groups.
- Criterion 9** Analyse factors affecting the layout, interior surfaces and furnishings of an area that is required for a specific function.
- Criterion 10** Demonstrate knowledge and understanding of the factors which affect human comfort.

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Pages: 6  
Questions: 6  
Attachments: Answer Sheets for Sections B and C

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## CANDIDATE INSTRUCTIONS

There are **THREE** sections to this paper.

Answer **ONE** question from each section.

Your answer to **Section A** must be written in the answer booklet provided.

Use the answer sheets provided for your answers to **Sections B and C**. You must clearly indicate which question you have answered.

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<b>SECTION A</b>
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Answer **ONE** question from this section.

Use a separate **answer booklet** for this section.

This section assesses **Criterion 5**.

### Question 1

Identify **three** significant historical developments in the evolution of Australia's housing styles. For each development:

- (a) briefly outline its background;
- (b) explain why it could be considered to be an important development in Australian housing styles; and
- (c) discuss the manner in which it met the practical, psychological and sociological needs of the inhabitants.

### Question 2

State and Commonwealth governments offer differing levels of assistance in the provision of housing for a number of groups within society. Select **four** groups from the list below.

- unemployed single people, living independently
- homeless youths
- physically disabled people, living independently
- aged, widowed females on pension
- first home buyers
- single parents with school-aged children
- refugees
- victims of domestic violence

For each group:

- (a) identify the types of assistance in relation to housing provided by government; and
- (b) discuss the extent to which these types of assistance meet the recipients' practical, psychological and sociological needs.

**SECTION B**

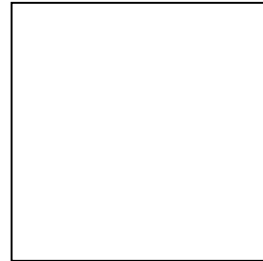
Answer **ONE** question from this section.

Use the **answer sheet** provided for your answer to this section.

This section assesses **Criterion 9**.

**Question 3**

Choose **one** of the plan shapes below and design a domestic kitchen layout to suit. Graphically indicate the kitchen's relation to an adjacent space. Dimension and annotate your plan giving reasons for layout, function and finishes.

**Question 4**

The Smith family is thinking of building an extension to their house to accommodate two computer stations. A new room can easily be added to the back of the house. The Smiths need advice on plan shape and room layout. Their budget allows for 12 square metres of new floor area. Design and draw a plan showing a functional layout.

- a) Design and draw a plan at an appropriate scale.
- b) Add dimensions and annotations to explain your design advice.
- c) Explain how ergonomics and anthropometrics have affected your design.

## SECTION C

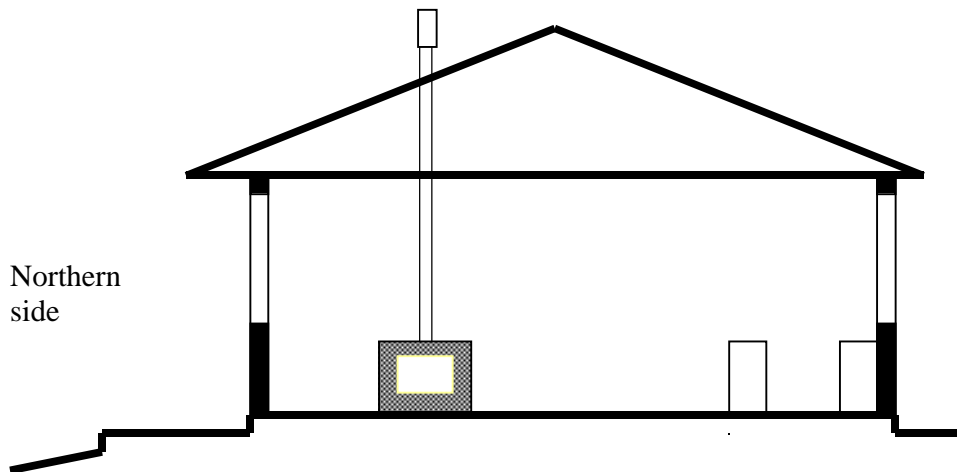
Answer **ONE** question from this section.

Use the **answer sheet** provided for your answer to this section.

This section assesses **Criterion 10**.

### Question 5

Launceston and the Tamar Valley suffer serious air pollution every year. Wood fuel heating is a major contributor. The section below shows a typical living room and kitchen in the Tamar Valley. Redraw the section, making minor changes, to demonstrate environment friendly, active and passive systems for maintaining thermal comfort. Annotate your section explaining design choices and give reasons why your suggestions would not contribute to air pollution.



**Section C continues over the page**

**Question 6**

The drawings below show ideal plan shapes and sizes of spaces for twin share bungalows connected by pathways in an eco-tourist development.

Select **either**

a cool alpine region in the Tasmanian wilderness

**or**

a hot humid region in tropical north Queensland

as the site.

- Without changing the shapes and sizes, arrange the spaces into a sensible plan for that climate region.
- Detail wall openings and design features that would support human comfort.
- Annotate your plan to explain the features that would support human comfort for the tourists.

