

**UNIVERSITY OF SOUTH AUSTRALIA**  
**SCHOOL OF NATURAL AND BUILT ENVIRONMENT**

**FIRE TECHNOLOGY 1 – external Examination**

**November, 2006**

**Date of examination:**

**Examiner:**                    **Graham Brown**

**General instructions to candidates :**

**Write your name on the examination booklet.**

**You must answer all questions.**

**All questions have marks indicated in brackets e.g. ( 20 marks )**

**Lecture notes and text books and Australian Standards are permitted references.**

**Reading time is 10 minutes before commencing the paper.**

**Time for examination is 2 hours.**

**Question 1. ( 20 marks )**

By the use of suitable diagrams explain how a fire will start and grow in a piece of firewood.

**Question 2. ( 20 marks )**

Using suitable diagrams explain how a fire will spread in a two storey building with open stairs.

**Question 3. ( 20 marks )**

Discuss the factors which may affect the intensity or severity of a fire in a building and why a fire in a house will have a lesser severity than one in a warehouse.

**Question 4. ( 20 marks )**

Fire doors are installed in buildings to inhibit the spread of fire. Discuss how the doors may not be so effective in stopping the spread of smoke.

**Question 5. ( 20 marks )**

Discuss the various factors which will determine how effective a building evacuation plan might be.