

**BINDURA UNIVERSITY OF SCIENCE EDUCATION  
BACHELOR OF SCIENCE DEGREE**

NR 206(1)

**DEPARTMENT OF NATURAL RESOURCES  
BSc Part II Examination**

**FIRE MANAGEMENT**

 **MAR 2023**

**2 HOURS (70 Marks)**

**INSTRUCTIONS:**

Answer **THREE** questions out of the following five questions. You must answer question **ONE** from **SECTION A** and any **TWO** questions from **SECTION B**.

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**SECTION A (COMPULSORY)**

1. (a) State the correct terms for the following processes:
  - (i) First phase of burning processes in a confined space in which the substance being oxidized is producing some heat but the heat has not spread to other substances nearby. [2 Marks]
  - (ii) A phenomenon that occurs when a mixture of alkaline based chemicals and certain cooking oils come into contact resulting in the formation of a soapy film. [2 Marks]
  - (iii) Water stream of finely divided particles used for fire control. [2 Marks]
  - (iv) Act of creating a barrier between fuel and fire. [2 Marks]
  - (v) Force created by rapid deceleration of water causing a violent increase in pressure that can be powerful enough to rupture piping or damage fixtures. [2 Marks]
- (b) Discuss the stages of fire development within a compartment. [20 Marks]

**SECTION B**

2. Discuss the influence of climate change on current global fire occurrences. [20 Marks]

3. 'Fire drills are a waste of production time and money.' Discuss. **[20 Marks]**
4. 'Good housekeeping habits are an important part of fire prevention.' Discuss. **[20 Marks]**
5. Discuss the notion that local communities should always be part of any wildland fire prevention programme. **[20 Marks]**

**END OF PAPER**