BINDURA UNIVERSITY OF SCIENCE EDUCATION BARCHELOR OF SCIENCE DEGREE

NR 206(1)

DEPARTMENT OF NATURAL RESOURCES BSc Part II Examination

FIRE MANAGEMENT

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.

SECTION A (COMPULSORY)

- 1. (a) Distinguish the following terms:
 - (i) Straight and solid streams.
 (ii) Thermal layering and gas cooling
 (iii) Fire point and flash point
 (iv) Pyrolysis and vaporisation
 (v) Ground fires and crown fires
 [2 Marks]
 [2 Marks]
 [2 Marks]
 - (b) Explain why fire drills are not performed in many Zimbabwean institutions.

[10 Marks]

(c) Discuss the notion that local communities should always be part of any wildland fire prevention programme.

[10 Marks]

SECTION B

2. 'Wildland fire control by government departments and traditional institutions in Zimbabwe has failed'. Discuss.

[20 Marks]

3. (a) Illustrate the parts of a wildland fire.

[10 Marks]

(b) Explain the initial action that firefighters should take when suppressing a wildland fire.

[10 Marks]

4. Evaluate the role of fire in natural resources management and restoration.

[20 Marks]

5. Discuss the factors that affect wildland fire behaviour.

[20 Marks]

END OF PAPER