

**CHUKA**



**UNIVERSITY**

**UNIVERSITY EXAMINATIONS**

**THIRD YEAR EXAMINATION FOR THE AWARD OF  
BACHELOR OF SCIENCE IN NATURAL RESOURCE MANAGEMENT**

**NARE 340: FIRE CONTROL AND USE**

**STREAMS: BSC (NARE) Y3S1**

**TIME: 2 HOURS**

**DAY/DATE: FRIDAY 19/12/2014**

**8.30 AM – 10.30 AM**

**INSTRUCTIONS:**

**SECTION A (ANSWER ALL QUESTION) 30 MARKS]**

1. Differentiate between the following terms
  - (a) Wildfire and prescribed fire [2 marks]
  - (b) Surface and ground fire [2 marks]
  - (c) Head fire and back fire [2 marks]
2.
  - (a) Highlight any three major causes of wild fires. [3 marks]
  - (b) List any four fire fighting equipments. [4 marks]
3. Briefly discuss fire danger rating. [5 marks]
4.
  - (a) Identify any three ways in which fire can be detected. [3 marks]
  - (b) List four components of fire regimes that determine the effect of fire on vegetable. [4 marks]
5. As an officer in charge of a park or a forest reserve what strategic actions can you put in place to prevent fire outbreaks? [5 marks]

**SECTION B (ANSWER ANY TWO QUESTIONS) – 40 MARKS**

6. Discuss fire burn plan and the elements to consider when developing it. [20 marks]

7. Discuss the fire suppression methods giving advantages and disadvantages of each method. [20 mark]
  8. Discuss the role of fire in management of grazing lands. [20 marks]
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