



**UNIVERSITY OF SWAZILAND  
FINAL EXAMINATION PAPER**

**PROGRAMME: BSc IN HE V & BSc IN HE ED V**

**COURSE CODE: LUM 501**

**TITLE OF PAPER: NATURAL RESOURCE MANAGEMENT**

**TIME ALLOWED: TWO (2) HOURS**

**SPECIAL MATERIAL REQUIRED: NONE**

**INSTRUCTIONS: ANSWER QUESTION ONE AND ANY TWO OTHER  
QUESTIONS.**

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GRANTED BY THE CHIEF INVIGILATOR**

**QUESTION ONE: COMPULSORY QUESTION**

- (a) Describe the detrimental effects of the accumulation of carbon dioxide in the atmosphere, highlighting means of alleviating the problem. (15 marks)
- (b) Describe the pressures that are brought about by the increase in the world's population to the natural resources. (10 marks)
- (c) Describe three differences between a natural ecosystem and those of highly managed agriculture. (15 marks)

**QUESTION TWO**

- (a) Using examples explain how the social changes influence the appreciation and view of natural resources in a society. (15 marks)
- (b) Give five properties of pure water, and illustrate how each of the properties can be used as an indicator of purity of water, (15 marks)

**QUESTION THREE**

- (a) Describe in detail three methods of water conservation for either domestic purpose or cropping purpose. (15 marks)
- (b) Fluorocarbons are a source of environmental degradation, especial in developing countries. Give two examples of substances used under domestic environment that contribute to the accumulation of fluorocarbons in the atmosphere. (15 marks)

**QUESTION FOUR**

- (a) Briefly describe three attributes that can be used to differentiate between a national park and a nature reserve. (15 marks)
- (b) Give a brief description of two theories for pricing natural resources, highlighting how each theory can be applied in a realistic situation. (15 marks)