



FACULTY OF SCIENCE

DEPARTMENT OF GEOGRAPHY, ENVIRONMENTAL MANAGEMENT & ENERGY STUDIES

MODULE	ENM2A ENVIRONMENTAL MANAGEMENT
CAMPUS	APK
EXAM	SSA 2016

DATE **2016.0.27**

SESSION **08:30 – 11:30**

ASSESSOR(S)

MRS D.C. SCHOEMAN
MRS L. MODLEY
MR S. DLAMINI

INTERNAL MODERATOR

DR C. KELSO

DURATION **3 HOURS**

MARKS **100**

NUMBER OF PAGES: 3 PAGES

INSTRUCTIONS:

- 1. Answer ALL OF THE QUESTIONS**
- 2. Number your answers clearly.**
- 3. Answer each Section in a separate book.**
- 4. Please note there are THREE sections.**
- 5. Please note there are choices in Section C.**

SECTION A (Mrs Schoeman)**QUESTION 1**

Challenges faced by local government in waste management *“are often symptoms of a number of underlying and inter-related root causes that need to be addressed first. Many of these underlying causes are also often outside of the mandate or control of local government and as such, require close cooperation between local, provincial and national government”* (CSIR, 2011).

Taking the above statement into consideration, explain problems of waste management in South Africa. Also include possible solutions to these problems. Use examples to illustrate your answer.

(25)

SUB TOTAL [25]

SECTION B (Mrs Modley)**QUESTION 1**

“Urbanization has led to deterioration in the quality of water in streams and lakes near urban centres” (Moyo and Phiri, 2002).

Defend this statement by referring to case studies in South Africa, paying special attention to implementation and management plans to minimize the effects of water pollution.

(25)

SUB TOTAL [25]

SECTION C (M_{se} Clayton & Mr Dlamini)

Choose and answer any TWO questions.

QUESTION 1

Discuss concentrated solar thermal systems for power generation and the different technologies available. **(25)**

QUESTION 2

Despite modern technology and medical innovations, we have still not stamped out Influenza, Malaria and Tuberculosis. Discuss why this is the case and offer solutions. **(25)**

QUESTION 3

South Africa has a very distinctive and unequal history as regards land ownership and ownership of the means of food production. This has resulted in a very distinct set of environmental problems. Examine the inequality in the South African food production sector, the environmental problems that result and discuss the priority solutions to these issues. **(25)**

QUESTION 4

Present the potential environmental impacts of underground mining and explain how these can most effectively be managed. Include a discussion of acid mine drainage in your essay. **(25)**

QUESTION 5

Discuss the national legislative measures that govern air pollution in South Africa. **(25)**

SUB TOTAL [50]

TOTAL [100]
