



NELSON MANDELA UNIVERSITY
OF SCIENCE AND TECHNOLOGY

FACULTY OF NATURAL RESOURCES AND SPATIAL SCIENCES

DEPARTMENT OF ARCHITECTURE AND SPATIAL PLANNING

QUALIFICATION: BACHELOR OF TOWN AND REGIONAL PLANNING	
QUALIFICATION CODE: 07BTAR	LEVEL: 5
COURSE CODE: EVP510S	COURSE NAME: ENVIRONMENTAL PLANNING
SESSION: JULY 2019	PAPER: THEORY
DURATION: 3 HOURS	MARKS: 100

SECOND/SUPPLEMENTARY OPPORTUNITY QUESTION PAPER	
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INSTRUCTIONS

1. Answer **all** questions.
2. Read all the questions carefully before answering.
3. Marks for each question are indicated at the end of each question.
4. Please ensure that your writing is legible, neat and presentable.

PERMISSIBLE MATERIALS

1. Examination paper & script
2. Pen, ruler, pencil, eraser

THIS QUESTION PAPER CONSISTS OF 4 PAGES (Including this front page)

Question 3**[15]**

- 3(a) Briefly discuss the evaluation criteria one should use in analysing energy resources. [3]
- 3(b) Apply the three expert conclusions in considering energy paths in giving advice to the Minister of Energy. [3]
- 3(c) Governments can use three strategies to help stimulate or dampen the use of particular energy resources. Explain these strategies and give appropriate examples. [6]
- 3(d) Highlight five advantages in evaluating the trade-offs as motivation to convince government on the use of solar electricity. [3]
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Question 4**[15]**

- 4(a) The biggest considered challenge of this century is significant climate change – scientific consensus is that the atmosphere is warming rapidly due to human activities. Identify three preventative measures concerning global warming. [3]
- 4(b) Identify the four main water pollution sources and give an example of each source. [8]
- 4(c) Waste reduction (reduce, reuse, recycle) can be achieved by input or output approaches. Describe each respective approach to indicate its meaning. [4]
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Question 5**[15]**

- 5(a) Democratic public policy development goes through a policy life cycle. Discuss the four stages / components thereof. [4]
- 5(b) The Namibian government is tasked with the sustainable management of Namibia's sardines, based on scientific decisions to maintain our marine ecosystems. What measures in the NCE case study can be implemented to promote the recovery of our sardine stock? [5]
- 5(c) The Blue Economy of founder Gunther Pauli is a project to find nature-inspired technologies that could affect the economies of the world. Explain five innovative solutions proposed by this concept. [6]
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Question 6**[15]**

- 6(a) It is important to study global environmental issues/trends contributing to problems of un-sustainability. Discuss four un-sustainable trends in respect of mobility & transportation. [4]
- 6(b) Elaborate on the smart growth tools of regulations, zoning and planning. [6]
- 6(c) How can authorities address informality? [5]
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