



UNIVERSITY
OF
JOHANNESBURG

FINAL EXAMINATION

PROGRAM : NATIONAL DIPLOMA
ENVIRONMENTAL HEALTH

SUBJECT : ENVIRONMENTAL PLANNING 1

CODE : EPL11-1

DATE : 08 NOVEMBER, 2014 (FINAL EXAMINATION)

DURATION : 3 HRS

WEIGHT : 50 : 50

TOTAL MARKS : 150

EXAMINER : MR MASEKAMENI MASILU DANIEL

MODERATOR : MRS MOKOATLE CHARLOTTE

NUMBER OF PAGES : 3 PAGES

INSTRUCTIONS:

1. ALL THE QUESTIONS MUST BE ANSWERED.
2. ANSWERS THAT ARE NOT TECHNICALLY CORRECT AND LOGICALLY STRUCTURED SHOULD BE PENALISED.
3. ANSWERS TO QUESTIONS MUST NOT BE SPLIT. IF SO ONLY THE FIRST PART OF THE ANSWER WILL BE MARKED.
4. STUDENTS MAY START ANSWERING ANY QUESTION FIRST.
5. ANSWERS THAT ARE LOGICALLY CORRECT CAN BE ACCEPTED SINCE ENP 21-1 IS A PRACTICAL SUBJECT.

Good Luck!!!

QUESTION 1 (63 MARKS)

1. Both natural and man-made activities threatens an ecosystem if they are severe. Heavy rainfall, tornado, veld fires, volcanic eruptions, earthquake, hurricanes and outbreaks are natural disasters which threatens an ecosystem. Carefully with practical examples answer the following questions.
- 1.1. Differentiate between ecology and ecosystem [5]
- 1.2. Explain stability of a living system in responds to environmental stress [9]
- 1.3. What will be the effects of environmental stresses on both organizational and population levels [10]
- 1.4. What will be your role as EHP in minimizing or preventing environmental stresses arising from man-made activities? [8]
- 1.5. With the aid of a diagram explain energy pyramid in an ecosystem [10]
- 1.6. With the aid of a diagram, explain the following cycles:
- a) Carbon cycle [12]
- b) Nitrogen cycle [9]
- [63]
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QUESTION 2 (46 MARKS)

- 2.1 With practical relevance please explain the following concepts
- 2.2. With practical examples explain the functions of a town [14]
- 2.3. Explain five (5) effects of bad planning [15]
- 2.4. Explain three factors which you will consider when planning a town [9]
- 2.5. Explain zoning and its importance in a town [8]
- [46]
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QUESTION 3 (41 MARKS)

- 3.1 A house must provide protection against people at risk with a special reference to women and children. Kindly explain this? Why women and children? [8]
- 3.2. Community A relies on livestock and farming. Most of their livestock is stolen by Butchers and hunters. They make a requisition from the government to build their houses on a high slopped area to secure their livestock. You therefore intend to decline this request, please motivate? [8]
- 3.3. Principle 1 in housing: states that a habitable house must provide protection against communicable diseases- clearly explain this principle, outline features which will guide the developer to achieve this principle and also clearly indicate how disease can occur and spread if such features were not adequate provided. [15]
- 3.4. Explain principles of RDP [10]

[41]

Total Marks =150