

UNIVERSITY OF SWAZILAND
Faculty of Health Sciences

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see corrections
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BSc ENVIRONMENTAL HEALTH SCIENCES-
Environmental Management
MAIN EXAMINATION PAPER DEC 2008

TITLE OF PAPER : ENVIRONMENTAL POLLUTION

COURSE CODE : EHS 550

DURATION : 2 HOURS

MARKS : 80

INSTRUCTIONS : ANSWER ANY FOUR QUESTIONS

: EACH QUESTION CARRIES 25 MARKS

**: NO PAPER SHOULD BE BROUGHT INTO
NOR OUT OF THE EXAMINATION ROOM**

**: BEGIN EACH QUESTION ON A
SEPARATE SHEET OF PAPER**

**DO NOT OPEN THIS QUESTION PAPER UNTIL PERMISSION IS
GRANTED BY THE INVIGILATOR**

QUESTION ONE

- A) "Our world is full of plastics" consider this statement and outline the debates around the use of plastics and indicate the extent to which you agree or disagree with the various points of views [10]
- B) The primary concern when it comes to oil pollution is for companies and local authorities to be prepared to deal with oil spills. Describe what they can do to demonstrate this preparedness. [10]

QUESTION TWO

Explain (in one paragraph and in your own words) what each of the following statements mean, and give examples which illustrate the point being made.

1. Most ocean pollution comes from land based activities [4]
2. Methods of cleaning up oil spills are both mechanical and chemical [4]
3. Environmental problems-present themselves as scientific, social, political and economic in nature [4]
4. the precautionary principle is debatable when considering development [4]
5. Pollution can result from contamination [4]

QUESTION THREE

- A). Water pollution may be defined as "the loss of any of the actual or potential beneficial uses of water caused by any change in its composition due to human activity" Outline at least five uses of water and state how the beneficial uses of each may be lost [10]
- B). Discuss the following classes of water pollution [10]
- 1) Eutrophication
 - 2) Sediment
 - 3) Thermal

QUESTION FOUR

- A) What are the socioeconomic driving forces that exacerbate the problem of urban transport pollution? [5]
- B) Mention at least ten things in an ordinary house that serve as sources of indoor pollution. [10]
- C) Of the three electric power generation techniques which is more environmentally friendly [5]

QUESTION FIVE

- A) Answer on Persistent Organic Pollutants (POPs) under the following headings
- 1) What are POPs and their importance [2]
 - 2) Sources [2]
 - 3) Common POPs –the 12 identified by the Stockholm convention [2]
 - 4) Characteristics of POPs [2]

5) Problems they cause [2]

B) Describe the Stockholm convention and list at least five elements of this convention [5]

C) Why is DDT still being used in Swaziland. What are the arguments? [5]
