

NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY
FACULTY OF ENVIRONMENTAL SCIENCE
DEPARTMENT OF ENVIRONMENTAL SCIENCE & HEALTH
BACHELOR OF SCIENCE HONOURS DEGREE EXAMINATIONS

ENVIRONMENTAL SCIENCE: SBB1101

JULY 2002

Time allowed: 3 Hours

Total Marks: 100

INSTRUCTIONS:

Answer any **THREE** questions from Section A and any **ONE** question from Section B
All questions carry **25** marks each.

SECTION A

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1. Give a detailed account of the schistosome life cycle. Include the methods of prevention and transmission control of this disease.
2. a) Write an essay on the pesticides that affect nervous transmission in humans and pests. [20 marks]
b) Name five pesticides indicating their exact site of action on nerves. [5 marks]
3. Using diagrams show the various factors that contribute to acid rain, with particular emphasis on the chemical processes.
4. Give an overview of the impact of industrial and agricultural activities on the ecosystem.

SECTION B

5. Outline the processes of global warming and ozone depletion. What measures can a country like Zimbabwe put in place to reduce its impact on the two phenomena? [25 marks]
6. a) Define Environmental Impact Assessment (EIA) and list the essential steps required for the successful conduct of an EIA. [10 marks]
b) Why should an EIA be done for large sugar estates such as Hippo Valley. [15 marks]

End of question paper