

UNIVERSITI SAINS MALAYSIA

Second Semester Examination
Academic Session 2004/2005

March 2005

BSF 102/4 - Man and the Environment

[Duration : 3 hours]

Please ensure that this examination paper contains **THREE** printed pages.

Answer FIVE out of SIX questions, in English.

Each question carries 20 marks.

1. Describe the energy flow in a food chain from autotrophs to carnivores levels and their accompanying activities. Give examples for each level.

(20 marks)

2. List three (3) types of biomes. Describe one of them giving an account of their biotic and abiotic factors.

(20 marks)

3. With the aid of a diagram, describe a typical nitrogen cycle. Discuss briefly the use of nitrogenous compound.

(20 marks)

4. Discuss the following topics:

(a) Nutrient pollution in the aquatic environment and its relationship to eutrophication.

(10 marks)

(b) Major human activities causing deforestation.

(10 marks)

5. (a) What causes ozone depletion?

(10 marks)

(b) Discuss briefly the potential of environmental effects related to ozone depletion.

(10 marks)

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6. (a) Write short notes on acid rain.

(10 marks)

(b) Define desertification and describe the human activities leading to it.

(10 marks)