

UNIVERSITI SAINS MALAYSIA

Peperiksaan Semester Kedua
Sidang Akademik 2002/2003

Februari/Mac 2003

BSF 102/4 - Man And The Environment

Masa : [3 jam]

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

Answer FIVE out of SIX questions, in English.

Each question carries 20 marks.

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1. (a) Define the following terms: population, community, ecosystem, biosphere and ecosphere.

(10 marks)

- (b) Briefly describe the principal aquatic life zones of standing-freshwater and marine ecosystems.

(10 marks)

2. (a) Define population density and dispersion, and describe the main types of dispersion.

(10 marks)

- (b) Population growth is ultimately stopped by limitations on the ability of the environment to support the population. Discuss these limiting factors.

(10 marks)

3. Briefly describe the following:

- (a) Major roles of organisms in a community
- (b) Symbiosis
- (c) Hydrologic cycle
- (d) Succession

(20 marks)

4. (a) Define what is desertification? Give 3 zones in the world where desertification is occurring.

(10 markas)

- (b) Describe how human activities can lead to desertification.

(10 marks)

5. (a) Write a short note on the consequences of deforestation.

(10 marks)

- (b) What is ozone and how is it formed? What causes ozone depletion?

(10 marks)

6. (a) What is acid rain? Giving examples, explain the effects of acid rain.

(10 marks)

- (b) What is the green house effect? Describe the gases involved in the green house effect.

(10 marks)