

UNIVERSITI SAINS MALAYSIA

Peperiksaan Semester Pertama  
Sidang Akademik 2003/2004

September/Oktober 2003

**BSF 101/3 - Biodiversity in The Tropics**

Masa : [3 jam]

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

Answer FIVE out of SIX questions. Candidates are allowed to answer all questions in English.

Each questions carries 20 marks.

1. (a) In the new classification system (after Whittaker 5 kingdom system), living organisms are classified into 3 domains. Name the domains.  
(6 marks)
- (b) Give two differences between Prokaryotes and Eukaryotes.  
(4 marks)
- (c) Name the FOUR (4) kingdoms in Eukarya.  
(4 marks)
- (d) Name the THREE (3) groups of archaea bacteria.  
(6 marks)
2. (a) Name the THREE (3) types of fungal nutrition and describe their functions.  
(12 marks)
- (b) Give FOUR (4) characteristics of a virus.  
(8 marks)
3. Write short notes on:
- (a) Ecological roles of Bryophytes.  
(10 marks)
- (b) Alternation of generations.  
(10 marks)

4. Name an animal for each of the following Phylum:

- (a) (i) Cnidaria
- (ii) Platyhelminthes
- (iii) Mollusca
- (iv) Annelida
- (v) Chordata

(10 marks)

(b) Briefly discuss the importance of Biodiversity.

(10 marks)

5. Give two examples of the following cultivated plants.

- (a) Fruits trees.
- (b) Ornamental plants.
- (c) Medicinal plants.
- (d) Spices.
- (e) Vegetables.

(20 marks)

6. Write short notes on the following:

- (a) Family Dipterocarpaceae.
- (b) *Ex-situ* and in-situ plants conservation.

(10 marks)

(10 marks)