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UNIVERSITI SAINS MALAYSIA

First Semester Examination  
Academic Session 2005/2006

November 2005

**BSF 101/3 – Biodiversity in the Tropics**

Duration : 3 hours

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Please ensure that this examination paper contains TWO printed pages  
before you begin the examination.

Answer FIVE out of SIX questions in English.

Each question carries 20 marks.

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1. [a] What do you understand by species diversity and how can it be measured?  
(8 marks)  
[b] Briefly discuss the differences between monocots and dicots.  
(12 marks)
2. Write short notes on  
[a] A typical sequence of a red tide event  
(8 marks)  
[b] Botanical nomenclature  
(6 marks)  
[c] An example of Malaysian epiphytic fern (Pteridophyta)  
(6 marks)
3. Discuss the ecological and economical importance of a mangrove ecosystem.  
(20 marks)
4. Discuss how animal richness and diversity in the tropics can be explained.  
(20 marks)
5. Using examples, describe the animal-plant interactions in the tropical rain forest.  
(20 marks)
6. Explain the impacts and responses of introduced species in the conservation of natural biodiversity. Give specific examples.  
(20 marks)