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UNIVERSITI SAINS MALAYSIA

Second Semester Examination  
Academic Session 2005/2006

April/May 2006

**EKC 374E – Environmental Engineering**  
***[Kejuruteraan Persekitaran]***

Duration : 3 hours  
*[Masa : 3 jam]*

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

*[Sila pastikan bahawa kertas peperiksaan ini mengandungi ENAM muka surat yang bercetak sebelum anda memulakan peperiksaan ini.]*

**Instruction:** Answer **FOUR** (4) questions. If a candidate answers more than four questions only the first four questions in the answer sheet will be graded.

**Arahan:** Jawab **EMPAT** (4) soalan. Jika calon menjawab lebih daripada empat soalan hanya empat soalan pertama mengikut susunan dalam skrip jawapan akan diberi markah].

*[Pelajar dibenarkan menjawab semua soalan dalam Bahasa Inggeris ATAU Bahasa Malaysia ATAU kombinasi kedua-duanya.]*

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1. [a] Give the definition of the followings as given in Environmental Quality Act and Regulations:

- [i] Environment
- [ii] Industrial plant
- [iii] Pollutant
- [iv] Environmental Management System
- [v] Environmentally Hazardous Substances

[10 marks]

[b] Briefly discuss the objective (s) of the following International Multilateral Environmental Agreements:

- [i] Montreal Protocol on substances that deplete the ozone layer (1987).
- [ii] United Nations Framework Convention on Climate Change (UNFCCC).
- [iii] Prior Informed Consent (Rotterdam Convention)
- [iv] ASEAN Agreement on Transboundary Haze Pollution.

[10 marks]

[c] What is environmental ethics? Briefly discuss the importance of environmental ethics.

[5 marks]

1. [a] *Berikan takrifan yang berikut seperti di dalam Akta dan Peraturan Kualiti Alam Sekitar:*

- [i] *Alam Sekitar*
- [ii] *Loji Industri*
- [iii] *Bahan cemar*
- [iv] *Sistem Pengurusan Alam Sekitar*
- [v] *Bahan Berbahaya Alam Sekitar*

[10 markah]

...3/-