
UNIVERSITI SAINS MALAYSIA

Second Semester Examination
Academic Session 2006/2007

April 2007

**RET 521 – Tenaga Dalam Bangunan
(Energy In Buildings)**

Masa: 2 jam
(Duration: 2 hours)

Sila pastikan bahawa kertas peperiksaan ini mengandungi **TIGA** muka surat yang tercetak sebelum anda memulakan peperiksaan ini.

*Please check that this examination paper consists of **THREE** pages of printed material before you begin the examination.*

Jawab **SEMUA** soalan.

*Answer **ALL** questions.*

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1. Apakah definisi "Green Building" dan bincangkan:-
 - a. Faedah-faedahnya terhadap alam sekitar, ekonomi dan sosial.
 - b. **ENAM (6)** kriteria 'Green Building'.

What is the definition of "Green Building" and discuss:-

- (a) *The benefits of Green Building practice to environment, economy and social.*
- (b) **SIX (6)** *criteria of Green Building.*

(25 markah/marks)

2. (a) Apakah pengurusan tenaga dan bincangkan **EMPAT (4)** prinsip asas pengurusan tenaga.
- (b) Audit tenaga merupakan satu daripada tugas yang perlu dilakukan dalam mencapai matlamat program kawalan kos tenaga berkesan. Apakah definisi audit tenaga dan bincangkan secara ringkas komponen-komponen laporan satu audit tenaga.
- (a) *What is energy management and discuss **FOUR (4)** basic principles of energy management.*
- (b) *The energy audit is one of the first tasks to be performed in the accomplishment of an effective energy cost control programme. What is the definition of energy audit and discuss briefly the components of an energy audit report.*

(25 markah/marks)

3. Sejauh manakah anda tahu tentang senario elektrik suria di Malaysia?

How much do you know about the solar electricity scenario in Malaysia?

(25 markah/marks)

....3/-

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4. Kita boleh menggunakan strategi sistem aktif bagi kecekapan tenaga untuk mengelakkan kemusnahan pesat alam semulajadi dalam membekalkan penggunaan elektrik. Strategi lain adalah menggunakan sistem pasif. Apakah sistem pasif dan sila terangkan beberapa contoh.

One can employ the active system strategy for energy efficiency to prevent the rapid deterioration of the environment in providing the ever increasing consumption of electricity. The other strategy is the passive system. What does this mean and elaborate by example.

(25 markah/marks)

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