
UNIVERSITI SAINS MALAYSIA

Second Semester Examination
Academic Session 2006/2007

April 2007

**RDG 266 – Rekabentuk Perabot
(Furniture Design)**

Masa: 2 jam
(Duration: 2 hours)

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

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

Jawab **DUA** soalan sahaja. Jawab **SATU** soalan dari **BAHAGIAN A** dan **SATU** soalan dari **BAHAGIAN B**.

*Answer **TWO** questions only. Answer **ONE** question from **SECTION A** and **ONE** question from **SECTION B**.*

...2/-

- 2 -

**BAHAGIAN A
(SECTION A)**

1. Terdapat berbagai kaedah memotong balak dalam proses membuat perabot secara umum, di antaranya ialah:-
- (a) Pemotongan 'rotary'
 - (b) Pemotongan 'mudah'
 - (c) Pemotongan separuh-lilitan.

Anda diminta huraikan kaedah-kaedah tersebut serta kaitkan dengan kekuatan dan kegunaan dalam rekabentuk perabot.

There are many ways of cutting solid timber log, such as:-

- (a) *Rotary cutting,*
- (b) *Plain slicing*
- (c) *Half-round slicing*

Explain how each is being cut and the differences in their strength and uses in furniture design.

(50 markah/marks)

2. Huraikan senarai bahan-bahan berikut serta kegunaannya dalam industri rekabentuk secara am:-
- (a) Plastik Tetulang Kaca
 - (b) Plastik Tetulang Serat
 - (c) Polikarbonat

Explain the following materials and their uses in the design industry in general:-

- (a) GRP – Glass reinforced plastics
- (b) FRP – Fibre reinforced plastics
- (c) Polycarbonate

(50 markah/marks)

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**BAHAGIAN B
(SECTION B)**

3. Buat penilaian serta perincian kemasan, pemasangan, teknik pembinaan serta anggaran kos yang diperlukan bagi tempah-bina. (Lihat **Rajah 1**, pilih salah **SATU** pelan lantai:- (a) Pelan Lantai Bawah **atau** (b) Pelan Lantai Tingkat 1).

*Evaluate a complete schedule of finishes, fittings, construction techniques and cost estimation required for the custom-built furniture as in the given interior plans. (See **Figure 1**, choose **ONE** of the following:- (a) Ground Floor Plan **or** (b) First Floor Plan).*

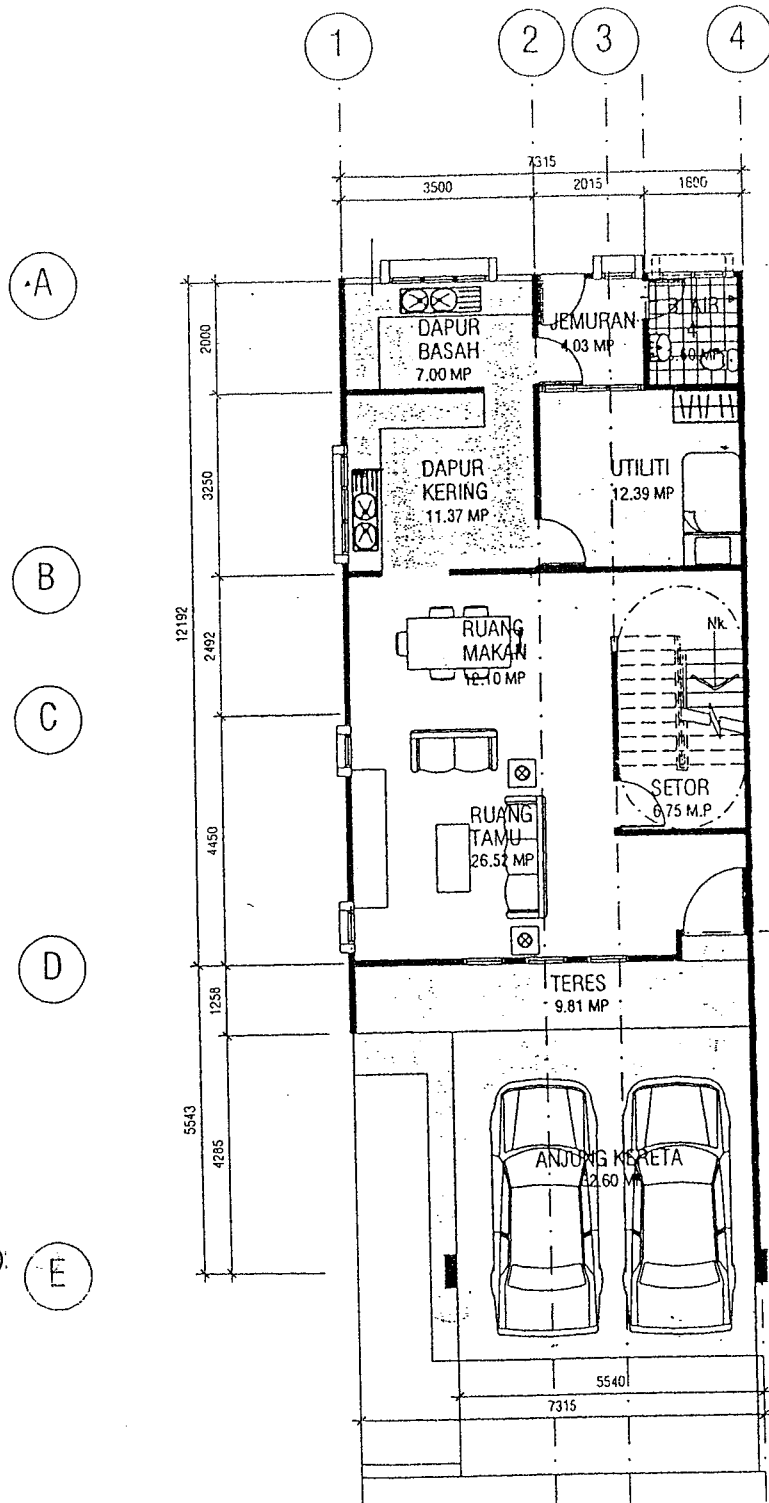
(50 markah/marks)

4. Terdapat pelbagai rekaan sistem perabot tempah-bina pasang siap dalam pasaran untuk memuatkan perkakasan dapur, bilik air dan bilik tidur. Bincangkan kebaikan serta kelemahan yang terdapat pada sistem tersebut.

There are wide varieties of mass-produced built-in furniture systems available in the market for fitting-out kitchens, bathroom and bedrooms. Discuss what are the pros and cons of the systems?

(50 markah/marks)

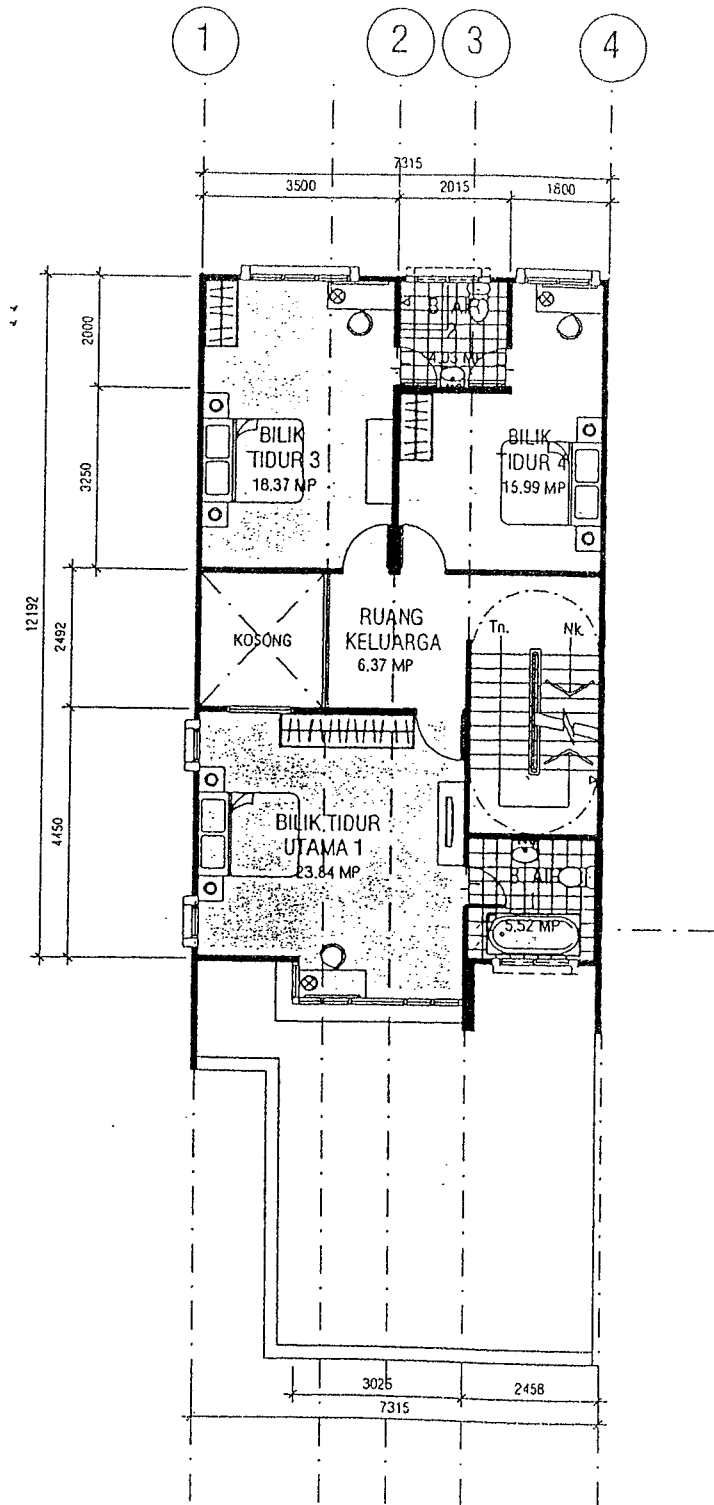
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RAJAH 1 (FIG. 1)
(Rujuk kepada
Soalan 3)

GROUND FLOOR PLAN

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RAJAH 1 (FIGURE 1)
(Rujuk kepada Soalan 3)

FIRST FLOOR PLAN