
UNIVERSITI SAINS MALAYSIA

First Semester Examination
2013/2014 Academic Session

December 2013 / January 2014

**RPK 334 – Traffic Planning
(Perancangan Lalu Lintas)**

Duration : 3 hours
(Masa: 3 jam)

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

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

Students are allowed to answer all questions either in English OR in Bahasa Malaysia only.

Pelajar dibenarkan menjawab semua soalan dalam Bahasa Inggeris ATAU Bahasa Malaysia sahaja.

Answer **FIVE** questions.

*Jawab **LIMA** soalan.*

In the event of any discrepancies, the English version shall be used.

[Sekiranya terdapat sebarang percanggahan pada soalan peperiksaan, versi Bahasa Inggeris hendaklah diguna pakai].

1. Describe factors influencing parking of car in urban area.

Huraikan faktor-faktor yang mempengaruhi parkir kereta (tempat letak kereta) di kawasan bandar.

(20 marks/markah)

2. Using an example, explain how the Expansion Factor Model is applied in determining the future projection of trip generation for a residential area.

Dengan menggunakan contoh, terangkan bagaimana Model Faktor Pengembangan (Expansion Factor Model) digunakan untuk menentukan pengeluaran perjalanan bagi sesuatu kawasan kediaman di masa hadapan.

(20 marks/markah)

3. List three (3) categories of road accidents. Discuss five (5) techniques for road accident management and monitoring.

Senaraikan tiga (3) jenis kemalangan jalan raya. Bincang lima (5) teknik untuk perancangan dan pemantauan kemalangan jalanraya.

(20 marks/markah)

4. Referring to T junction, elaborate how the traffic volume survey is conducted? (Sketch the T junction and the survey form).

Berdasarkan persimpangan T atau simpang tiga, huraikan bagaimana bancian lalu lintas dikendalikan. (Sila tunjukkan lakaran persimpangan T serta borang bancian).

(20 marks/markah)

5. Student cycling in campus? Describe the strength and weakness of this proposal.

Pelajar berbasikal di kampus? Huraikan kekuatan dan kelemahan cadangan ini.

(20 marks/markah)

6. List techniques of origin- destination inventory. Discuss which technique that is suitable for assessing trips to and from Georgetown.

Senaraikan teknik-teknik inventori origin-destinasi. Bincangkan teknik mana yang sesuai bagi mengkaji perjalanan ke dan dari Georgetown.

(20 marks/markah)