



**UNIVERSITI KUALA LUMPUR
MALAYSIAN INSTITUTE OF INDUSTRIAL TECHNOLOGY**

**FINAL EXAMINATION
JANUARY 2016 SEMESTER**

COURSE CODE : JLB 40602
COURSE TITLE : TRANSPORT PLANNING
PROGRAMME LEVEL : BACHELOR
DATE : 26 MAY 2016
TIME : 2.30 PM – 4.30 PM
DURATION : 2 HOURS

INSTRUCTIONS TO CANDIDATES

- 1. Please read the instructions given in the question paper CAREFULLY.**
- 2. This question paper is printed on both sides of the paper.**
- 3. This question paper consists of TWO (2) sections.**
- 4. Answer ALL questions in Section A. Choose THREE (3) questions in section B.**
- 5. Please write your answers on the answer booklet provided.**
- 6. Please answer all questions in English only.**

THERE ARE 3 PAGES OF QUESTIONS EXCLUDING THIS PAGE.

SECTION A (Total: 40 marks)**INSTRUCTION: Answer ALL questions.****Please use the answer booklet provided****Question 1**

Transportation planning done by the planner need to include the general headings of safety, comfort, convenience and appearance. State and briefly explain the **FOUR (4)** focus of transport planner in ensuring the safety, comfort, convenience and appearance of transportation.

(20 marks)

Question 2

Green Transportation define as any kind of transportation that doesn't give negative impact to environment. It is very important for our next generation towards sustainable environment. Discuss the **SEVEN (7)** Green Transportation Hierachy.

(20 marks)

SECTION B (Total: 60 marks)

INSTRUCTION: Choose THREE (3) questions only

Please use the answer booklet provided

Question 1

The comprehensive transport planning is the optimization the balance between private, public and active transportation. Based on "carrot and stick" principle, Examine the **FIVE (5)** push and **FIVE (5)** pull factors that the transport planner need to analyze in improving the public transport services in Malaysia.

(20 marks)

Question 2

Table 1 shows the 15 minutes counts that have been recorded for a given highway.

Table 1

Time Period	Counts (Vehicle/15 minutes period)
8.30 - 8.45 p.m.	1500
8.45 – 9.00 p.m.	800
9.00 – 9.15 p.m.	900
9.15 – 9.30 p.m.	1200

With reference of above data:

- (a) Determine PHF (Peak Hour Factor).

(10 marks)

- (b) The hourly volume for a similar facility was found to be equal to 4000 veh/hr. Determine the design volume for the facility.

(10 marks)

Question 3

In cities around the world such as Brisbane, Curitiba and many more, the integration of transport and land used development is also known as Transit Oriented Development (TOD). TOD increased accessibilities and also support sustainability. Evaluate the **FOUR (4)** strategic planning tools for TOD

(20 marks)

Question 4

In order to achieve Iskandar Malaysia's vision in having a competitive and efficient freight transport and logistics system, Iskandar Malaysia has planned the strategy for its freight network system. Illustrate and explain the **FIVE (5)** strategy for efficient freight network system.

(20 marks)

END OF EXAMINATION PAPER