



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

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**FINAL EXAMINATION  
JANUARY 2016 SEMESTER**

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**COURSE CODE : JLB 20603**  
**COURSE TITLE : TRANSPORTATION AND ENVIRONMENT**  
**PROGRAMME LEVEL : BACHELOR**  
**DATE : 22 MAY 2016**  
**TIME : 2:30 PM – 5:30 PM**  
**DURATION : 3 HOURS**

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**INSTRUCTIONS TO CANDIDATES**

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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 **ONE (1)** sections.
  4. Choose **FIVE (5)** questions in section A.
  5. Please write your answers on the answer booklet provided.
  6. Please answer all questions in English only.
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**THERE ARE 3 PAGES OF QUESTIONS EXCLUDING THIS PAGE.**

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**SECTION A (Total: 100 marks)****INSTRUCTION: Answer FIVE (5) questions only.****Please use the answer booklet provided.****Question 1**

Transportation is the movement of people, animals and goods from one location to another. Transportation is important because it enables trade between persons, which is essential for the development of civilizations.

- (a) Explain, including examples, **THREE(3)** categories of Right-of-Way (ROW) in transportation system. (10 marks)
- (b) Analyze the transportation system classification according to type and usage. (10 marks)

**Question 2**

Private vehicles are the biggest portion of transportation. Most families in the developed countries own at least one car. The situation is not much different in the developing countries either. Needless to say, the number of people who rely on public transport is declining.

- (a) Describe the negative impact of increasing the private vehicles on road towards the people and environment. (10 marks)
- (b) Examine **FOUR (4)** possible solution on reducing the negative impact above. (10 marks)

**Question 3**

To overcome the impact transportation on the environment, one of the option is to have a sustainable transportation system.

(a) Define the sustainable transportation system.

(5 marks)

(b) Analyze **FIVE (5)** challenges in met the sustainable development

(15 marks)

**Question 4**

Globally, more people live in urban areas than in rural areas, with 54% of the world's population residing in urban areas in 2014. In 1950, 30% of the world's population was urban, and by 2050, 66% of the world's population is projected to be urban. Evaluate **FIVE (5)** advantages of urbanization.

(20 marks)

Question 5

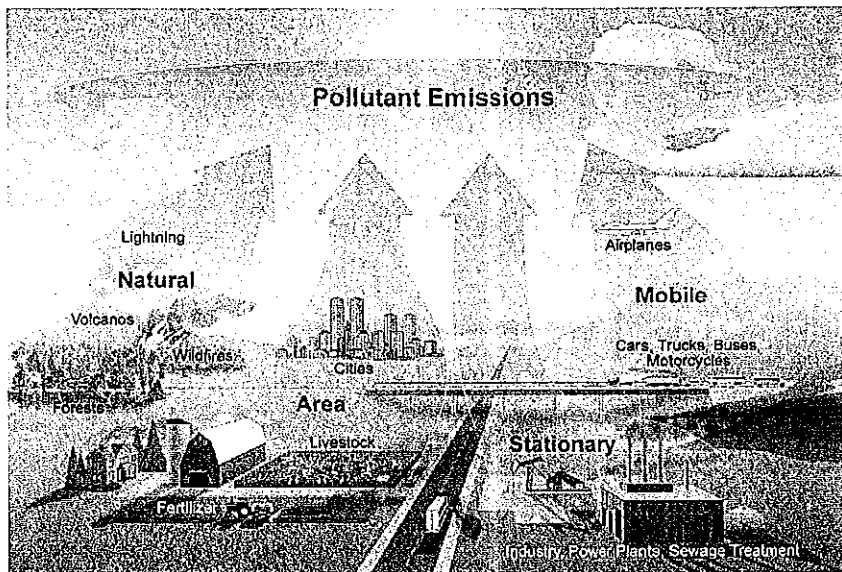


Figure 1: The pollutant emissions

(a) By referring the Figure 1 above, discuss the relationship between the pollutant emissions and development,

(10 marks)

(b) Propose the solution to minimize the pollutant emission.

(10 marks)

Question 6

Environment Impact Assessment (EIA) is a systematic process of identifying future consequences of a current or proposed action.

(a) Justify with example, why the EIA process are differ from country to country.

(10 marks)

(b) Construct the process in EIA

(10 marks]

END OF EXAMINATION PAPER