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UNIVERSITI TUN HUSSEIN ONN MALAYSIA

**FINAL EXAMINATION
SEMESTER II
SESSION 2021/2022**

- COURSE NAME : RAILWAY MANAGEMENT
COURSE CODE : BNT 40203
PROGRAMME CODE : BNT
EXAMINATION DATE : JULY 2022
DURATION : 3 HOURS
INSTRUCTION : 1. ANSWER ALL QUESTIONS
2. THIS FINAL EXAMINATION IS **PHYSICAL ASSESSMENT AND CONDUCTED VIA CLOSED BOOK**
3. STUDENTS ARE **PROHIBITED TO CONSULT THEIR OWN MATERIAL OR ANY TYPE OF EXTERNAL RESOURCES DURING THE EXAMINATION**

THIS QUESTION PAPER CONSISTS OF **THREE (3) PAGES**

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- Q1** (a) “Rail transport system is considered economical in comparison with other mode of transport. Although there were encouraging supports on rail transit services, one of the major challenges has been its ridership. The growth of private transport industries at the second half of the 20th century has seen a prompt decline in rail transport usage. There is a growing trend of dependency on private modes of transportation, particularly automobiles (e.g. Grab Car) in many metropolitan cities in developing countries.”

Explain your analysis on agreement and disagreement of the above statement.
(8 marks)

- (b) In general, accessibility is labelled as the physical access to goods, services and destinations. In the context of urban economics and geography, accessibility, which is one of the most important outcomes of the transportation system, as characterised as the facilitation in accessing a specific area or location (Mavoa et al., 2012).

Write your own opinion regarding the location and personal accessibility of public transport system in Malaysia especially in the context of railway public transport.
(8 marks)

- (c) Differentiate between asset owner and operators in railway industry.
(5 marks)
- (d) Give **TWO (2)** examples of rail asset owner and operator in Malaysia.
(4 marks)

- Q2** (a) Analyzing the environment in which you operate is the first step to creating a strategy. There are several analysis tools that can help you assess your chosen market and the world in which you do business.

Differentiate between PESTLE analysis and Porter’s Five Forces (P5F).
(10 marks)

- (b) Rapid Rail Sdn Bhd is the operator of the rapid transit (metro) system serving Kuala Lumpur and the Klang Valley area in Malaysia. A subsidiary of Prasarana Malaysia, it is the sole operator of five rapid transit lines which collectively form the Rapid KL rapid transit system. The system currently consists of three light rapid transit (LRT) lines, one mass rapid transit (MRT) line and a monorail line.

By using Porter's Five Forces, elaborate each of **FIVE (5)** forces and ways to deal with that.

(15 marks)

- Q3** Understanding the structure of railway costs is essential and crucial for all railway activities. Construction of a new railway line will be strongly based on accurate knowledge of costs.

- (a) Describe **FIVE (5)** factors that influenced the construction cost of the new railway line.

(10 marks)

- (b) Explain briefly **THREE (3)** objectives of infrastructure pricing in railway project and operation.

(15 marks)

- Q4** (a) A risk register is a tool in risk management and project management. It is used to identify potential risk in a project or an organization. As a project manager of the new railway project, you were asked to register the potential risk.

Explain the importance to register the project risk with appropriate example of risk assessment template using the railway risk matrix.

(10 marks)

- (b) Risk management is the process of identifying, assessing, and controlling threats to an organization's capital and earnings. Risk assessment is an important thing that is necessary in risk management.

Elaborate the process of risk assessment by incorporating the terms/definition of likelihood and severity (risk matrix) and how likelihood and severity rating should suitably determine.

(15 marks)

-END OF QUESTION-

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