



UNIVERSITI TUN HUSSEIN ONN MALAYSIA

**FINAL EXAMINATION
(TAKE HOME)
SEMESTER I
SESSION 2020/2021**

COURSE NAME : RAILWAY MANAGEMENT
COURSE CODE : BNT 40203
PROGRAMME CODE : BNT
EXAMINATION DATE : JANUARY / FEBRUARY 2021
DURATION : 3 HOURS
INSTRUCTION : ANSWER ALL QUESTIONS
OPEN BOOK EXAMINATION

TERBUKA

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

- Q1** (a) Discuss your analysis on agreement and disagreement of the above statement. “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, Uber) in many metropolitan cities in developing countries.”
- (10 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). It is a measure advantage of the location of a zone or area compared to the other zones and areas (Biosca and Stepnjak, 2013) Good accessibility of public transport improves the accessibility to other services as well (Abreha, 2007). Hence, accessibility of public transport stops, connectivity of modes of public transport and system mobility should be considered to provide user-friendly system of public transport (Cheng and Chen, 2015). Therefore, write your own opinion regarding the location and personal accessibility of public transport system in Malaysia especially in the context of railway public transport.
- (10 marks)
- (c) Differentiate between asset owner and operators in railway industry. Give **TWO (2)** examples of rail asset owner and operator in Malaysia.
- (5 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)

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- (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 use Porter's Five Forces, elaborate each of FIVE (5) forces and ways to deal with that.
- (15 marks)
- Q3** (a) Cost can be defined as the amount of available resources spent in conjunction with the construction or operation of railway activity. Discuss briefly **THREE (3)** railway costs that are essentials and crucial for all railway activities.
- (9 marks)
- (b) Understanding the structure of railway costs is essential and crucial for all railway activities
- (i) Identify **TWO (2)** factors that influenced the construction cost of the new railway line.
- (6 marks)
- (ii) Discuss briefly **THREE (3)** objectives of infrastructure pricing in railway project and operation.
- (10 marks)
- Q4** There are risks factors in the construction process of railway engineering, such as the risks of decision-making, design, construction, technology, quality, investment, natural disaster, and so on.
- (a) Using appropriate examples, propose a general risk management process that should be established by a project manager to ensure the rail project can be properly managed and achieved.
- (10 marks)
- (b) The transport sector may contribute to some negative effects on the environment. By giving appropriate examples, evaluate **FIVE (5)** environmental issues related to railway development.
- (15 marks)

-END OF QUESTION-

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