1. Kertas soalan ini mengandungi **LIMA (5)** soalan esei dalam **DUA (2)** halaman bercetak tidak termasuk muka hadapan.
   *This exam script contains FIVE (5) essay questions in TWO (2) printed pages excluding the cover page.*

2. Anda dikehendaki menjawab **SEMUA** soalan dalam kertas jawapan yang disediakan.
   *You are required to answer ALL questions in the answer sheet provided.*
ANSWER ALL QUESTIONS.

QUESTION 1

Fixed track (rail) public transport is an ideal solution for many urban areas. It can move people efficiently from their home to their workplace.

a) Briefly explain FOUR (4) components of rail tracks. (12 marks)

b) Discuss the TWO (2) differences between jointed track and continuous welded track. (8 marks)

QUESTION 2

Selecting the right form of urban rail transport is crucial to the well-being of any city. Discuss FOUR (4) factors governing the selection of the most appropriate urban rail system for a city. Illustrate your answer with relevant examples. (20 marks)

QUESTION 3

Safe operation is the important element in providing transport service. There are several factors that contribute to train accident. Discuss the TWO (2) factors of each train accidents given below. Illustrate with relevant examples.

a) Head tail crash (10 marks)

b) Derailment of train (train off the track) (10 marks)

QUESTION 4

Globalization increases the demand for landbridge. Define landbridge movement. Discuss THREE (3) types of landbridge freight service. (20 marks)
QUESTION 5

Tram, rapid transit and commuter rail are some of the rail transport that being preferred in eliminating traffic congestion in city centre.

a) Explain the THREE (3) differences of each types of rail transport. (10 marks)

b) In 2020, Alor Setar will become a megacity. From the three types of rail transport stated above, which is the most appropriate rail transport system to be develop and operate in the city. Why? Illustrate your answer with examples. (10 marks)

~ END OF QUESTIONS~