

CONFIDENTIAL



UTHM
Universiti Tun Hussein Onn Malaysia

UNIVERSITI TUN HUSSEIN ONN MALAYSIA

**FINAL EXAMINATION
SEMESTER II
SESSION 2018/2019**

COURSE NAME : TRAFFIC AND TRANSPORTATION
MANAGEMENT

COURSE CODE : BPF 31803

PROGRAMME CODE : BPC

EXAMINATION DATE : JUNE / JULY 2019

DURATION : 3 HOURS

INSTRUCTION : ANSWER ALL QUESTIONS

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

CONFIDENTIAL
TERBUKA

- Q1** (a) In Malaysia, road accidents that were recorded in year 2016 are 521,466 cases while in year 2017 are 533,875 cases. Therefore, there is 2.32 percent increase in road accidents within those years and majority of it was the head-on collision.

Propose **TWO (2)** solutions that may overcome such type of collision.

(10 marks)

- (b) Road safety management and strategy is a structured approach to accident prevention and casualty reduction both in the urban and rural area.

Discuss accident prevention approach.

(5 marks)

- Q2** (a) Public Work Department (PWD), Ministry of Work (MOW) especially Road Branch is the agency responsible in planning and managing the Federal Roads. In order to increase the safety of the road concerned, there are four approaches that can be utilised.

Differentiate **FOUR (4)** approaches used in road safety programmes.

(20 marks)

- (b) The pedestrian and motorcyclist are the groups of road users which can be categorized as the Vulnerable Road User, which poses high risk of fatalities in road accident.

Outline how safety programmes for each of the groups can improve the safety of road users.

(15 marks)

- Q3** (a) Define the following terminologies:

- (i) Accident reduction
- (ii) Accident prevention.

(5 marks)

- (b) Discuss the following techniques commonly used in road traffic management system:

- (i) One-way street
- (ii) Contra flow operation
- (iii) Traffic calming

(15 marks)

- Q4** (a) Explain blackspot ranking by using the following techniques:
- (i) Accident point
 - (ii) Accident maps
- (5 marks)
- (b) The site visit is very important element of any accident investigation.
Describe the main purpose of site visit.
- (5 marks)
- (c) Outline **FOUR (4)** factors that should be considered when providing walking and crossing facilities for pedestrians.
- (20 marks)

-END OF QUESTIONS-