



UNIVERSITY OF RUHUNA

Faculty of Engineering

End-Semester 5 Examination in Engineering: August 2014

Module Number: IS5232

Module Name: Information Literacy and
Scientific Communication Skills

[Part 1 – One Hour, each question carries 01 mark]

[Part 2 – Two Hour, each question carries 15 marks]

Part 2

Answer only four (04) questions by selecting at least one (01) from each section.

Section A

- Q1. i. Distinguish Individual Search Engines and Meta search Engines. [5 Marks]
- ii. *“Search Engines are more popular and widely used electronic research tools”* briefly discuss this statement. [10 Marks]
- Q2. i. Briefly explain any two of the following:
a. Scholarly information source
b. Database
c. Thesaurus [9 Marks]
- ii. Describe the parts of a standard book. [6 Marks]
- Q3. i. What are the web searching techniques that can be used by a smart searcher to find more results on a topic? [7 Marks]
- ii. Why do you use web searching techniques in literature survey? [8 Marks]
- Q4. i. What is copyright? [8 Marks]
- ii. How can we decide whether we are using a copyrighted material according to fair use? [7 Marks]

Section B

Q5.

Describe how to use **SQ3R system** as a reading technique.

Or

Describe how "Mind Mapping" can be used as a study technique.

[15 Marks]

Q6. Write short notes on *three* of the following.

- a. Note taking techniques
- b. Research design
- c. Eye contact
- d. Deductive reasoning
- e. Reference list

[5 Marks for each]

Q7. Read the following abstract of a research article and answer questions below:

Abstract

Young drivers' high traffic violation involvement rate and significant contribution to traffic crashes compared to older drivers creates the need for detailed analyses of factors affecting young drivers' behaviors. This study is based on survey data collected from 2,057 18–29 year old young adults. Data were collected via face-to-face questionnaire surveys in four different cities in Turkey. The main objective of this study is to identify the relationship between socio-demographic characteristics, traffic rule violations, and traffic crashes among young drivers. Four main traffic rule violations are examined: red light violations, seat belt violations, speeding, and driving under the influence of alcohol, which are decisive in determining driving behavior and traffic crashes. The survey investigates the socio-demographic characteristics, traffic rule violation behavior and traffic crash histories of young adults. Four hypothetical scenarios were prepared for each traffic rule violation and data from the scenarios were modeled using the ordered probit model. Significant variables affecting each traffic rule violation are stated. Finally, significant variables that interact with crash involvements were investigated with binary logit models. According to the data analysis, 23.9% of drivers stated that they were involved in at least one traffic crash within the last three years. This crash rate increases to 38.3% for those who received at least one traffic citation/violation in last three years and peaks to 47.4% for those who were fined for seat belt violations in last three years.

- a. What would be the purpose of this research?
- b. What was the procedure / experimental design of this research/
- c. What was the sample to collect data?
- d. What are the findings?
- e. What were the methods used to analyze data?

[3 Marks for each]