

THE OPEN UNIVERSITY OF SRI LANKA
 POST- GRADUATE DIPLOMA IN/ MASTERS OF TECHNOLOGY
 FINAL EXAMINATION– 2013/2014
 TTY7191 – RESEARCH METHODOLOGY
 DURATION – THREE HOURS



DATE: 31st August 2014

TIME: 0930 - 1230 HOURS

Total number of questions = 07

Number of questions to be answered = 06

Answer the question one (Q1), which is compulsory and five (05) more questions.

Question one (Q1) carries 25 marks and questions two (Q2) to seven (Q7) carry fifteen (15) marks each.

Compulsory Question

- (Q1) (a) Briefly explain the different approaches, which can be used to select a research problem. (10 marks)
- (b) Write a comprehensive note on the major elements of a good research problem. (10 marks)
- (c) Identify five (05) research problems presently relevant to the Sri Lankan textiles and apparel industry. (05 marks)

Answer any five (05) from the following six (06) questions

- (Q2) (a) State the major components of a good research proposal. (03 marks)
- (b) Write a brief research proposal on a research problem you have identified in the Q1 (c). The answer should include all major components of a good research proposal. (12 marks)
- (Q3) (a) Giving suitable examples, explain what research is and what research is not. (10 marks)
- (b) Giving suitable examples, describe the benefits of carrying out research. (05 marks)

- (Q4) (a) Write a comparative description on qualitative and quantitative approaches of research. (08 marks)
- (b) Explain the purposes and benefits of carrying out literature surveys/reviews in research work. (07 marks)
- (Q5) (a) Giving examples, describe the possible sources of experimental errors in research. (10 marks)
- (b) Briefly explain the techniques, you should employ to reduce experimental errors. (05 marks)
- (Q6) (a) Write a comprehensive note on sampling techniques, which are widely used in research. (10 marks)
- (b) Discuss the importance of the selection of the correct size of the sample in research. (05 marks)
- (Q7) Write short notes on the followings:
- (a) Types of surveys used to collect data. (05 marks)
- (b) Importance of practicing good research ethics. (05 marks)
- (c) Different referencing methods used in research report writing. (05 marks)