

THE OPEN UNIVERSITY OF SRI LANKA
 DEPARTMENT OF TEXTILE AND APPAREL TECHNOLOGY
 POST GRADUATE DIPLOMA IN TECHNOLOGY IN,
 APPAREL PRODUCTION AND MANAGEMENT
 FINAL EXAMINATION– 2016/2017
 TTY7191 – RESEARCH METHODOLOGY
 DURATION – THREE HOURS



Date: 09th December 2017

Time: 0930 - 1230 hrs

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) Describe the major components of a good research proposal. (05 marks)
 (b) Mention five (05) research problems related to textiles and apparel industry. (05 marks)
 (c) Including all major components, write a brief research proposal on one of the research problems you have mentioned in part (b). (15 marks)

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

- (Q2) (a) Briefly describe the importance and benefits of research to the society. (07 marks)
 (b) Finding a good research topic is a difficult task. Explain the possible ways, by which you could find a good research topic. (08 marks)
- (Q3) (a) Briefly describe the purpose of carrying out a good literature review during the formulation of a research problem. (09 marks)
 (b) Giving advantages and disadvantages, write a short note on different sources, which could be used for literature reviews /surveys. (06 marks)

- (Q4) (a) Giving examples, describe the terms "Variables" and "Hypothesis" related to research design. (08 marks)
- (b) Giving suitable examples, discuss the sources of experimental errors. (07 marks)
- (Q5) (a) Discuss the importance of selection of correct sample size in research work. (07 marks)
- (b) Write a short note on sampling techniques, that can be used in research work. (08 marks)
- (Q6) Giving advantages and disadvantages, briefly discuss the following data collection methods used in surveys.
- (a) Questionnaire surveys (05 marks)
- (b) Telephone surveys (05 marks)
- (c) Personal interviews (05 marks)
- (Q7) Write short notes on the following:
- (a) Scientific dishonesty (05 marks)
- (b) Importance of referencing in research report writing (05 marks)
- (c) Elements/ features of a good research problem. (05 marks)