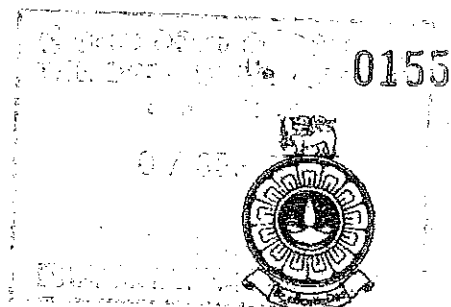


THE OPEN UNIVERSITY OF SRI LANKA
FACULTY OF HEALTH SCIENCES
DEPARTMENT OF MEDICAL LABORATORY SCIENCES
ACADEMIC YEAR 2019/2020 – SEMESTER 1



BACHELOR OF MEDICAL LABORATORY SCIENCES HONOURS
MDU5308 - RESEARCH METHODOLOGY- LEVEL 05
FINAL EXAMINATION

DURATION: 3 HOURS

DATE: 7th SEPTEMBER 2020

TIME: 1.30 PM – 4.30 PM

Part B: Short Answer Questions. (40 marks)

1.0

- (i) Briefly describe three (03) main phases of the “Research Process”? (6 marks)

- (ii) Discuss why literature survey is important in selecting a research problem? (2 marks)

- (iii) Describe the main purpose that medical laboratory scientists engage in research activities? (2 Marks)

(Total: 10 marks)

2.0

- (i) “Translational research in clinical practices is considered to be the knowledge based application”. Briefly explain the given statement using an example. (4 marks)

- (ii) “Research design is a major component in writing a research proposal”. Illustrate through a flow chart. (4 marks)

- (iii) Explain why the proposed research design does not prove to be effective for all the research projects. (2 marks)

(Total: 10 marks)

3.0 A research study is conducted to find out the students' opinion on the Day schools of Research Methodology course. Feedback is collected from 50 students who have got more than 70% attendance for Day schools.

(i) State the details of the following used in this study. (3 marks)

(a) Population:

(b) Sample:

(c) Sampling units:

(ii) Suggest a suitable sampling method for this study. Justify your answer. (2 marks)

(iii) State two (02) different methods that can be used to collect data. (2 marks)

i.-----
ii-----

(iv) Describe how you would advise the researcher to get a sample of 15 individuals from 50 students by using the sampling method mentioned in 3 (ii). (3 marks)

(Total: 10 marks)

4.0
(i) Outline the main steps involved in writing a proposal. (4 marks)

(ii) Explain five (05) different factors which affect the selection of research methods. (2 marks)

(iii) Briefly explain the following research methods which are used to conduct research projects. (4 marks)

(a) Qualitative research methods

(b) Quantitative research methods

(Total: 10 marks)

Part C: Essay Questions (30 marks)

1. "Writing a research report is an important step in the scientific process". Discuss. (15 marks)

2. Briefly write a one-page proposal on a research topic of your interest with the focus on the following aspects only. (15 marks)
 - a. Research topic
 - b. Research problem
 - c. Objectives of the research project
 - d. Type of research methods used for the study
 - e. National importance of the research project.