



**RAJARATA UNIVERSITY OF SRI LANKA
FACULTY OF APPLIED SCIENCES**

**B.Sc. (General) Degree in Health Promotion
First Year - Semester II Examination – November/December 2016**

HPT 1210 – RESEARCH METHODOLOGY

Time: Two (02) hours

Answer all questions

1. Suggest what are the main types of data to be collected and the most appropriate data collection method for following research questions. Explain reasons for your suggestions.
 - a) A research to identify the relationship between diet habits and the risk of developing heart diseases among nursing officers of all hospitals in the country.
 - b) A study among university students to assess their knowledge and understanding about reproductive health and contraceptive use.
 - c) According to a newspaper report, vegetable consumption among teenage population in North Central Province has reduced recently. Ministry of Health requested Rajarata University to conduct a research to estimate the percentage of teenagers who do not eat at least 100 grams of vegetables per day.
 - d) A research to find answer for the problem, why a large number of gender based violence victims do not take legal actions against perpetrators.

(25 X 4= 100 marks)

2. a) Explain the advantages of using self administered questionnaire in a survey.
- b) Structured observations are useful to minimize “subjectivity” during data collection.
Do you agree with this statement? Give reasons for your answer.
- c) Discuss why the sample size should be calculated before starting a research study.
- d) Research studies often utilize volunteers. Some researchers believe that the use of a volunteer sampling is not appropriate. Do you agree with this? Explain the reason for your answer.

(25 X 4 = 100 Marks)

3. This Question has two parts.

Part A

Indicate whether the following statements are true or false. Briefly explain the reason for your decision.

- a) Closed ended questions allow participants to respond to question in their own words.
- b) In non experimental research, researchers make observations of existing situations and characteristics without intervening.
- c) The research proposals are only for the experts in the field of study.
- d) Qualitative research requires large sample sizes.
- e) Open ended questions are more difficult to construct.

(12 X 5 = 60 Marks)

Part B

Identify each of the following data as either discrete or continuous or Categorical. . If the variable is categorical, indicate whether it is ordinal or nominal

- a) The number of children living in one household.
- b) The types of crop people grow in their lands.
- c) Whether people have access to clean water.
- d) How much money people spend on alcohol per month?
- e) Numbers of days per week mothers provide fish or meat for their children. ,
- f) Level of satisfaction of mothers with the service of Public Health Midwife (PHM).
- g) Employment of the research participants.
- h) The methods of daily transport used by community members.

(5 X 8 = 40 Marks)

4. Identify the **target population** and indicate a **sampling method** you would use for the studies outlined below. Explain reasons for your answers.
- a) A study to investigate the level of physical activity of Sri Lankan school children of 10-15 years age group.
 - b) Sri Lankan government plans a research study to assess the knowledge and attitude of tea estate workers in Badulla district on smoking.
 - c) A study to estimate the prevalence of tuberculosis (TB) among people over 55 years old in the North Central Province of Sri Lanka.
 - d) A study to find out whether exposing to pesticides for more than 10 years increase the risk of developing cancers among farmers.
 - e) A study to assess the level of current knowledge on contraceptive methods of garment factory workers in Polonnaruwa district of the North Central Province of Sri Lanka.

(20 X 5 = 100 Marks)

END