



FACULTY OF ALLIED HEALTH SCIENCES, UNIVERSITY OF RUHUNA

Department of Nursing

5th End Semester Examination – 2026 – 2021/2022 (15th) Batch

NUR 3112 – Fundamentals of Research in Nursing - SEQ

Date: 17th of June 2026

Time: 10.30 a.m. – 11.30 a.m.

Duration: 1 hour

Index Number:

Answer all questions in the given space.

1.

1.1. Define the following sampling methods.

a. Cluster random sampling

(05 marks)

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b. Stratified random sampling

(05 marks)

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1.2. Compare and contrast cluster random sampling and stratified random sampling.

(20 marks)

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1.3. Briefly describe “informed consent” in research studies. (20 marks)

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1.4 A group of undergraduate nursing students is planning to conduct a research study on the perceptions of nursing students regarding the spread of cross-infections in General Intensive Care Units in selected institutes in the Southern Province of Sri Lanka.

1.4.1 Name four (04) search engines or databases that can be used to find literature related to this topic.

(08 marks)

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1.4.2 List five (05) keywords that can be used when searching for literature. (12 marks)

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1.4.3 What is the most suitable study design for this research? (05 marks)

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1.4.4 Write one (01) data collection method that can be used for this study? (05 marks)

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1.4.5 What is the most appropriate data collection tool for this study? (05 marks)

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1.4.6 State two (02) advantages and two (02) disadvantages of this data collection tool.

(15 marks)

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2.

2.1 A researcher wants to determine the prevalence of hypertension among adults aged 40–65 years in a rural community. Data on blood pressure, body mass index (BMI), smoking status, and physical activity are collected from 600 adults over a one month period.

2.1.1 What is the most appropriate research design to conduct this study? (05 marks)

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2.1.2 Explain why the study design mentioned in 2.1.1. is suitable for this study. (15 marks)

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2.1.3 Identify the outcome variable and two (02) independent variables of the study.

(05 marks)

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2.1.4 State two (02) strengths and two (02) limitations of the mentioned design in this scenario. (10 marks)

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2.1.5 Can the researcher conclude that smoking causes hypertension? Explain your answer. (15 marks)

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2.2

2.2.1 A researcher is conducting a study to examine factors associated with falls among older adults living in the community. The following information is collected from 250 participants.

- Age (years)
- Sex (Male/Female)
- Number of falls experienced during the past year
- Level of mobility (Independent, Requires Assistance, Dependent)
- Body weight (kg)
- Presence of diabetes (Yes/No)

2.2.1.1 Categorise each variable whether it is qualitative variable or quantitative variable.

(05 marks)

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2.2.1.2 Further classify all qualitative variables as nominal or ordinal.

(05 marks)

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2.2.1.3 Classify all quantitative variables as discrete or continuous.

(05 marks)

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2.2.2 A nurse researcher wants to determine whether a newly developed fall-prevention education program reduces the incidence of falls among adults. Two groups of older individuals are selected. One group received an educational program, while the other group received no intervention other than routine care. The incidence of falls is measured after six months.

2.2.2.1 What is the most appropriate research design for this study? Justify your answer.

(10 marks)

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2.2.2.2 Formulate the general objective for this study.

(05 marks)

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2.2.2.3 Formulate an appropriate research hypothesis and null hypothesis for this study.

(10 marks)

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2.2.2.4 Identify the variables in this study

(10 marks)

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