

QP Code: 722010

Reg. No: .....

**Seventh Semester B.Sc Nursing Degree Regular Examinations August 2025  
Nursing Research and Statistics  
(2021 Scheme)**

Time: 3 Hrs

Total Marks: 75

- Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space • Answer all parts of a single question together
- Leave sufficient space between answers • Draw table/diagrams/flow charts wherever necessary
- The use of a simple calculator is allowed, but using scientific calculator or sharing any calculator is strictly prohibited under any circumstance.

**Section A – Nursing Research**

Max. Marks: 55

**1. Multiple Choice Questions**

(9x1=9)

**The responses for MCQ questions (Q.No. i to Q.No. ix) shall be written continuously on the first two writing sheets (ie Page No. 3 & 4) only**

- The degree to which an instrument measures an attribute which it is supposed to measure is called as  
a) Reliability                      b) Validity                      c) Specificity                      d) Sensitivity
- Which of the following is true about Hypotheses  
a) It is an evidence                      b) It is a primary source  
c) It generates theory                      d) It is a testable prediction
- If every 5th baby born in a city is entered into a study, the sampling method is called  
a) Stratified sampling                      b) Systematic sampling  
c) Random sampling                      d) Cluster sampling
- Which type of research focuses on cause and effect relationship.  
a) Correlational                      b) Descriptive                      c) Experimental                      d) Qualitative
- A sample should be drawn from which of the following  
a) Setting                      b) Reliability                      c) Population                      d) Findings
- Another name for Likert Scale is  
a) Interview protocol                      b) Event sampling  
c) Summated rating scale                      d) Ranking
- What is the dependant variable in a study examining the effect of exercise on blood pressure.  
a) Exercise                      b) Heart rate                      c) ECG                      d) Blood pressure
- Which of the following is used commonly in qualitative data collection  
a) In depth interview                      b) Questionnaire                      c) Rating scale                      d) Checklist
- When a extraneous variable systematically varies with the independent variable and influences the dependent variable, it is called:  
a) Another dependent variable                      b) A confounding variable  
c) A moderating variable                      d) An unreliable variable

**Essay**

(2x15=30)

- Define Research design. Classify research design. Briefly explain the experimental research design (2+4+9)
- Define Data. Classify methods of data collection. Explain interview technique in detail. (2+4+9)

**Short Notes**

(2x5=10)

- Probability sampling technique
- Pilot study

**Differentiate between**

(3x2=6)

- Null hypothesis and Research hypothesis
- Reliability and Validity
- Purposive sampling and Convenient sampling

(PTO)

Section B – Statistics

Max. Marks: 20

1. Multiple Choice Questions

(4x1=4)

**The responses for MCQ questions (Q.No. x to Q.No. xiii) shall be written continuously on the first two writing sheets (ie Page No. 3 & 4) only**

- x. Type of residence is an example of  
a) Nominal                      b) Ordinal                      c) Interval                      d) Ratio
- xi. Which of the following is a non parametric test  
a) "t" test                      b) ANOVA                      c) Chi- square test                      d) ANCOVA
- xii. Which is **NOT** a characteristic of normal distribution  
a) Symmetric                      b) Bell shaped  
c) Mean = Median = Mode                      d) Skewness
- xiii. A graph that uses vertical bars to represent data is called a  
a) Line graph                      b) Bar graph                      c) Scatterplot                      d) Vertical graph

Short notes

(2x5=10)

9. Correlation – coefficient

10. Following data gives the weight of 10 toddlers. Find the mean and median of the given data:

Weight in Kg	8, 15, 9, 12, 18, 11, 19, 10, 12, 16
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Differentiate between

(3x2=6)

- 11. Range and Standard deviation
- 12. Line graph and Frequency polygon
- 13. Nominal scale and Ordinal scale

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