

QP Code: 722010

Reg. No: .....

**Seventh Semester B.Sc Nursing Degree Special Supplementary  
Examinations January 2026  
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**

- i. Which of the following is **NOT** a key threat to internal validity  
a) Maturation                      b) Instrumentation      c) Temporal change                      d) History
- ii. A principle that is accepted has been true based on a logic or a reason without proof is called.....  
a) Assumption                      b) Hypothesis                      c) Delimitation                      d) Outcome
- iii. A Hypothesis stating no relationship between the variable is called.....  
a) Research hypothesis                      b) Null hypothesis  
c) Alternate hypothesis                      d) Complex hypothesis
- iv. Degree to which the values on a set of scores are dispersed is called  
a) Dispersion                      b) Type 1 error                      c) Variability                      d) Type 2 error
- v. A scale that is required for rating of a concept along a continuum is called  
a) Rating scale                      b) MCQ                      c) Checklist                      d) Visual analogue scale
- vi. A technique in which a panel of experts are asked to complete several rounds of questionnaire focusing on their judgement about a topic of interest is called:  
a) Delphi survey                      b) Indicator approach  
c) Survey approach                      d) Key informant approach
- vii. Other name for purposive sampling is:  
a) Judgemental sampling                      b) Quota sampling  
c) Cluster sampling                      d) Snowball sampling
- viii. The purpose of pilot study is to:  
a) Save time and money                      b) Finalize the research design  
c) Test feasibility                      d) Ensure ethical approval
- ix. The process to ensure participants voluntary, informed permission to participate in a study is called  
a) Risk assessment                      b) Informed consent  
c) Autonomy                      d) Beneficence

**Essay**

(2x15=30)

2. Define Sampling. Classify sampling techniques. Explain simple random sampling (2+4+9)
3. Define Nursing research. Describe the steps of Nursing research. List down the types of experimental designs (2+8+5)

**Short Notes**

(2x5=10)

4. Likert scale
5. Ethnography research design

**Differentiate between**

(3x2=6)

6. Primary and Secondary sources of data
7. Face validity and Content validity
8. Focus group interview and Delphi technique

(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. The formula to calculate standard deviation is  
a)  $\sqrt{\sum FX^2 / N}$       b)  $\sqrt{\sum FX / N}$       c)  $\sqrt{\sum X^2 / N}$       d)  $\sqrt{\sum X / N}$
- xi. What is the median of the following set of scores. 18, 6, 12, 10, 14  
a) 10      b) 14      c) 18      d) 12
- xii. The square of the standard deviation is called  
a) Range      b) Mean      c) Variance      d) Z score
- xiii. Which test compares the means of two independent groups  
a) Chi square      b) Independent t test  
c) Paired t test      d) ANOVA

**Short notes****(2x5=10)**

9. Normal probability curve

10. Following data gives the number of books read by students in a week. Calculate the mean number of books read:

| No. of books | No. of students |
|--------------|-----------------|
| 0            | 4               |
| 1            | 6               |
| 2            | 10              |
| 3            | 8               |
| 4            | 2               |

**Differentiate between****(3x2=6)**

11. Bar Diagram and Histogram

12. Categorical and Continuous data

13. Chi square and “t” test

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|----------------------------------------|
| <b>CORRECTION / NO-CORRECTION FILE</b> |
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**QPCODE: 722010**

**Dated: 30-01-2026**

**Section A - Nursing Research**

**Question No. 1(ix)**

**Modified as "The process to ensure participant's voluntary informed permission to participate in a study is called ...."**

**Question No. 5**

**Modified as "Ethnographic research design"**

**Section B - Statistics**

**Question No. 1(x)**

**Replaced with "A characteristic that changes from one individual to another is called a:**

- a) Constant**
- b) Parameter**
- c) Variable**
- d) Sample "**

**Corrections/Modifications/Replacement of Questions if any shall be made available to all students. Take the print out of the Correction File in such cases and distribute to all students.**

**(Sd/-)**

**CONTROLLER OF EXAMINATIONS**