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**RNS-003**

**Ph. D. IN NURSING (PHDNS)**

**Term-End Examination**

**December, 2021**

**RNS-003 : RESEARCH METHODOLOGY AND  
STATISTICS**

*Time : 3 Hours*

*Maximum Marks : 75*

**Note :** *Attempt all questions. Support your answer  
with examples wherever applicable.*

1. As a researcher you are interested in understanding the live experience of cancer patients.

(a) Explain the research approach you will use for study of live experience of patient. 5

(b) Describe the sampling technique you will use to select the sample. 5

(c) Differentiate between Qualitative and Quantitative Research Approach. 5

2. (a) Explain the characteristics of true experimental design. 5

(b) When a researcher is interested to observe the effect of two independent variables simultaneously on the dependent variables.

(i) Name the research design you will use. 2

(ii) Explain the design with the help of a research example. 8

3. Calculate mean and standard deviation of the following data set : 10

2, 4, 7, 8, 10, 12, 14, 15

4. Write short notes on any *four* of the following :

4 × 5 = 20

(a) Positive and negative correlation

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- (b) Cross over design
  - (c) Probability sampling
  - (d) Ratio scale of measurement
  - (e) Frequency distribution and class interval
  - (f) Measures of central tendency
5. (a) Explain parametric methods of applied statistics. 7
- (b) Discuss the steps of writing a research proposal. 8