

Ph.D. IN NURSING (PHDNS)

Term-End Examination

00187 June, 2018

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

Time : 3 hours

Maximum Marks : 75

Note : *Attempt all questions. Attempt all parts of a question at one place. Support your answers with examples wherever applicable.*

1. (a) Differentiate between Qualitative and Quantitative research. 5
- (b) Explain the dimensions of quantitative research design. 5
- (c) Discuss the characteristics of experimental research. 5
- (d) Describe factorial design. 5
2. (a) Define the following terms : 5×1=5
 - (i) Population
 - (ii) Sample
 - (iii) Sampling error
 - (iv) Strata
 - (v) Non-probability Sampling

(b) Explain simple random sampling and cluster sampling with examples. 8

(c) Write conceptual and operational definitions of any two terms used in the above study. 7

3. Write short notes on any *two* of the following : $5 \times 2 = 10$

(a) Sample size in qualitative studies

(b) Data Triangulation

(c) Focus group interviews

(d) Questionnaires as a tool of data collection

4. Compare the blood pressure (Systolic) values between two independent groups of males and females which are selected randomly and draw inference using 't' test. The BP (Systolic) is given below : 10

Males	Females
100	110
105	110
106	104
120	106
130	130
125	124
130	110
140	116
150	104
120	110

5. (a) List the levels of measurement. 2
- (b) Explain any one level of measurement with an example. 3
- (c) Given below are the knowledge scores of randomly selected nursing students related to hypertension in four different colleges of Nursing. Find out the difference of mean knowledge scores among the students of four colleges of Nursing using ANOVA. 10

S. No.	Colleges of Nursing			
	A	B	C	D
1	8	12	18	13
2	10	11	12	9
3	12	9	16	12
4	8	14	6	16
5	7	4	8	15