



HAY-0201294

Seat No. _____

Fourth Year Basic B. Sc. (Nursing) Examination

July - 2017

Nursing Research & Statistics

Time : 3 Hours]

[Total Marks : 75

SECTION - I (38 marks)

1 Long Essay : (any one out of two) 1×15=15

- (1) What is data ? Explain in detail about data collection techniques.
- (2) Explain the steps in research process.

2 Write short notes on following : (any three out of five) 3×5=15

- (1) Sampling
- (2) Hypothesis
- (3) Research problem
- (4) Experimental research design
- (5) Types of MCQs

3 Briefly answer the following : (any four out of six) 4×2=8

- (1) Define Randomization
- (2) Mention any two needs for research in nursing
- (3) Define validity
- (4) Define variables
- (5) Definition of pilot study
- (6) Expand : (a) CINAHL (b) MEDLINE

SECTION – II (37 marks)

4 Long Essay : (any one out of two) **1×10=10**

- (1) A nutritional programme was organized to improve the Haemoglobin levels of children with deficiency. 8 children participated in the nutritional programme, the Haemoglobin levels of children before and after the programme are listed below.

Test if the nutritional programme benefited the children or not ($P=2.36$ at 0.05 LOS)

Before	10.5	10.7	10.9	10.5	11.1	10.9	11.7	10.6
After	12.4	12.2	12.9	12.4	13.3	12.7	12.9	13.0

OR

- (1) Calculate the Arithmetic Mean and Median from the Serum Protein level (gm%) of 10 children fed on high protein food :

6.10 6.70 8.20 6.56 7.056 7.08 7.21 7.25 7.36 6.59

5 Write short notes on following : (Any **three** out of **five**) **5×3=15**

- (1) SPSS
- (2) Draw all types of graphs
- (3) Rating Scales
- (4) Normal probability curve
- (5) Sampling Errors.

6 Briefly answer the following : (**compulsory**) **6×2=12**

- (1) What are the Limitations of Statistics?
- (2) Explain Correlation.
- (3) What is Probability?
- (4) What is Histogram?
- (5) What is hypothesis testing?
- (6) Reliability.