

February 2012

[LA 1027]

Sub. Code: 4733

**B.Sc (Nursing) DEGREE EXAMINATION**  
(New Regulations for the candidates admitted from 2006-07 onwards)  
**FINAL YEAR**

**Paper III – NURSING RESEARCH AND STATISTICS**

*Q.P. Code : 664733*

**Time : Three hours**

**Maximum : 75 marks**

**Answer ALL questions.**  
**NURSING RESEARCH**

**I. Elaborate on:** (1X15=15)

1. a) Explain the purposes of research.  
b) Classify research design and explain any one research design with example.

**II. Write notes on :** (4X 5 =20)

1. Type I and Type II error.
2. Promoting utilization of research.
3. Dependant variable.
4. Exclusion criteria.

**III. Short Answer:** (7X 2 =14)

1. What is validity and reliability?
2. Types of close ended questions.
3. Name any two types of data collection.
4. Define Manipulation.
5. Write the meaning of assumption.
6. Null hypothesis.
7. Research objectives.

**STATISTICS**

**I. Elaborate on:** (1X15=15)

1. A workshop was conducted for five hours to improve the self efficacy. Twelve clients were participating in that workshop, the data was collected before and after the workshop was given below. Is the workshop benefit for the clients or not (table value 2.042)

Before : 48 56 58 60 61 61 62 63 64 66 66 66

After : 73 78 67 74 72 73 65 79 77 80 78 79

**I. Write notes on :** (1X 5 =5)

1. Co-efficient of Correlation.

**II. Short Answer:** (3X 2 = 6)

1. What is Cohort Study?
2. Define Probability.
3. Differentiate Qualitative and Quantitative research.

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[LB 1027]

AUGUST 2012

Sub. Code: 4733

**Fourth Year B.Sc - NURSING EXAM**  
**Paper III – NURSING RESEARCH AND STATISTICS**  
*Q.P. Code : 664733*

**Time : Three hours**  
**(180 Min)**

**Maximum : 100 marks**

**Answer ALL questions in the same order.**  
**Answer Section A And Section B Separately**

**SECTION A**  
**(NURSING RESEARCH)**

**I. Elaborate on:** **(2X20=40)**

1. Explain the Purpose, Scope, Sources and the steps in Review of Literature in Detail
2. Describe Non – Experimental Research Design in detail with Suitable Example.

**II. Write Notes on:** **(4X5=20)**

1. Need for Research in Nursing.
2. List the steps in development and refinement of Research Problem.
3. Pilot Study.
4. List the components of a Research Report.

**III. Short Answers on:** **(5X2=10)**

1. List the types of Qualitative Design.
2. Types of validity.
3. List the component of critiquing Published Research.
4. List 4 features influencing sampling process.
5. Define Nursing Research.

**SECTION B**  
**(STATISTICS)**

**I. Write Notes on:** **(4X5=20)**

1. Calculate the Co-efficient of Correlation for the Data.

X	10	12	18	24	23	27
Y	13	18	12	25	30	10

2. Nine students are chosen at random from a group and their heights are found to be 63, 63, 64, 65, 69, 69, 70, 70, 71. Test whether the mean height may be taken to be 65. [t<sub>0.05</sub>=2.31]
3. Types of diagrams and its uses in Statistics.
4. Define.
  - a. Test of Hypothesis
  - b. Type I error and Type II error.

**II. Short Answers on:** **(5X2=10)**

1. Write short notes on Classification of datas.
2. Write 4 properties of normal distribution.
3. List the uses of Chi-square test.
4. Find the mode of the following data  
24, 28, 20, 28, 36, 37, 36, 50, 80, 28.
5. Properties of Correlation Coefficient.

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[LC 1027]

FEBRUARY 2013

Sub. Code: 4733

**B.Sc (Nursing) DEGREE EXAMINATION**  
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**FINAL YEAR**

**Paper III – NURSING RESEARCH AND STATISTICS**

*Q.P. Code : 664733*

**Time : Three hours**

**Maximum : 100 marks**

**SECTION - A**  
**NURSING RESEARCH**

**I. Essay:** (2X20=40)

1. What are the types of research designs and explain the experimental research designs in detail
2. Explain the purpose, types, sources and flow of tasks in the process of review of literature

**II. Write Short Notes on :** (4X 5 =20)

1. Difference between quantitative and qualitative research
2. Observation method of data collection
3. Sources of research problem
4. Variables

**III. Short Answer Questions:** (5X 2 =10)

1. Define pilot study
2. Target population
3. Randomization
4. Sampling-definition
5. Bias

**SECTION - B**  
**STATISTICS**

**I. Write Short Notes on :** (4X 5 = 20)

1. Types of sampling
2. Calculate the standard deviation for the following data-  
8,11,15,16,18,13,12,10
3. Normal distribution
4. Type I and type II errors

**II. Short Answer Questions:** (5X 2 = 10)

1. Incidence rate
2. Types of 't' test
3. Scales used to measure variables –list down
4. Mention the statistical methods to establish reliability
5. What is degree of freedom

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[LD 1027]

AUGUST 2013

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**FINAL YEAR**

**Paper III – NURSING RESEARCH AND STATISTICS**

*Q.P. Code : 664733*

**Time : Three hours**

**Maximum : 100 marks**

**SECTION –A**  
**NURSING RESEARCH**

**I. Essay:** (2X20=40)

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

**II. Write Short Notes on :** (4X 5 =20)

1. Sampling
2. Hypothesis
3. Research problem
4. Experimental research design

**III. Short Answer Questions:** (5X 2 =10)

1. Define Randomization.
2. Mention any two needs for research in nursing.
3. Define validity.
4. Define variables.
5. Definition of pilot study.

**SECTION - B**  
**STATISTICS**

**II. Write Short Notes on :** (4X 5 = 20)

5. Chi-square test
6. Correlation
7. Procedure for test of significance
8. To compare their efficacy, 2 sleep producing drugs were tested independently on 5 patients. The following data gives the amount of sleep (in hours) the patients had after taking the drugs.

Drug A	6	2	4	5	3
Drug B	3	6	7	2	6

Compare the efficiencies of the two drugs on the basis of coefficient of variation.

**III. Short Answer Questions:** (5X 2 = 10)

6. Histogram
7. Standard deviation
8. Parametric test
9. Frequency distribution
10. Use of statistical package

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[LE 1027]

FEBRUARY 2014

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**FINAL YEAR**

**Paper III – NURSING RESEARCH AND STATISTICS**

*Q.P. Code : 664733*

**Time: Three hours**

**Maximum : 75 marks**

**SECTION A**  
**NURSING RESEARCH**

**I. Elaborate on:** (1x15=15)

1. Explain the methods and types of writing research reports.

**II. Write Notes on:** (4x5 =20)

1. Difference between qualitative and quantitative research designs
2. Sources and steps of review of literature
3. Ethics in nursing research
4. Evidence based practice

**III. Short Answer Questions:** (7x2 =14)

1. Mention any four characteristics of nursing research
2. Expand (a) CINAHL (b) MEDLINE
3. Types of qualitative research
4. Hawthorne effect
5. Reliability
6. Define hypothesis
7. Sampling types

**SECTION B**  
**STATISTICS**

**I. Elaborate on :** (1x15 = 15)

1. In a study find out the correlation coefficient between the distance from the health centre and the number of antenatal visits, with the following data.

Distance (Km): 2 2 4 6 7 8 9 10

No of Visits : 6 7 5 4 4 3 2 1

**II. Write Notes on:** (1x5 = 5)

1. Steps involved in testing of hypothesis

**III. Short Answer Questions:** (3x2 = 6)

1. Define Biostatistics
2. Advantages of diagrammatic representation
3. Write the properties of Mean.

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[LF1027]

AUGUST 2014

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**FINAL YEAR**  
**Paper III – NURSING RESEARCH AND STATISTICS**

*Q.P. Code : 664733*

**Time : Three hours**

**Maximum : 75 marks**

**SECTION A**  
**NURSING RESEARCH**

**I. Elaborate on :** (1x15=15)

1. Explain the data collection tools with examples

**II. Write Notes on :** (4x5 =20)

1. Conceptual frame work
2. Item analysis
3. Interview method
4. Utilization of research findings

**III. Short Answer Questions:** (7x2 =14)

1. Need for nursing research
2. Randomization
3. Types of validity
4. Sampling error
5. Population
6. Case study
7. Define problem statement

**SECTION B**  
**STATISTICS**

**I. Elaborate on :** (1x15 = 15)

1. A random sample of size 15 from a normal population yields a mean value of 2.23 and a variance of 7.33. Does this support the hypothesis that the population mean is '0'? (Table value : 2.145).

**II. Write Notes on:** (1x5 = 5)

1. Define type-I and type-II error

**III. Short Answer Questions:** (3x2 = 6)

1. Explain Bar chart.
2. Explain measures of Dispersion
3. Which test is used for samples of two different times, namely pre and post?

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