

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.

[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

Maximum : 100 marks

(180 Min)

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. $[t_{0.05}=2.31]$
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.

[LC 1027]

FEBRUARY 2013

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 : 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

[LD 1027]

AUGUST 2013

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 : 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

[LE 1027]

FEBRUARY 2014

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

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.

[LF1027]

AUGUST 2014

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

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?

[LG 1027]

FEBRUARY 2015

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

SECTION A
NURSING RESEARCH

I. Elaborate on : (1 x 15 = 15)

1. Explain the Phases of Quantitative Nursing Research.

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

1. Biophysiological Parameters
2. Dissemination of research findings
3. Quasi experimental design
4. Survey Research approach

III. Short answers on: (7 x 2 = 14)

1. List the types of hypothesis
2. Differentiate Non random and random sampling
3. Mention the purposes of Qualitative research
4. List any four methods of collecting self reports
5. Define reliability
6. List any four sources of research problem
7. Define extraneous variable

SECTION B
STATISTICS

I. Elaborate on : (1 x 15 = 15)

1. Random sample of 10 families were selected and their pre and post score of training program was recorded. Can you say that the training program was effective or not **Table Value = 1.833.**

Pre test	7	6	10	16	8	13	8	14	16	11
Post test	11	14	16	17	9	15	9	17	20	12

II. Write notes on: (1 x 5 = 5)

1. Normal Probability curve

III. Short answers on: (3 x 2 = 6)

1. Classification of Data
2. Type I Error
3. Name Four Statistical Software

B.Sc. (Nursing) DEGREE EXAMINATION
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FINAL YEAR

PAPER III – NURSING RESEARCH AND STATISTICS

Q.P. Code: 664733
SECTION A
(NURSING RESEARCH)

Time : Three Hours

Maximum : 75 marks

Answer ALL questions

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

1. a) Role of nurse in research.
- b) Explain the types of research.

II. Write notes on: **(5 x 5 = 25)**

1. Problem statement.
2. Methods of data collection.
3. Critique of nursing research studies.
4. Non experimental design.
5. Pilot study.

III. Short answers on: **(5 x 2 = 10)**

1. Mention the various types of writing research reports.
2. Sampling criteria.
3. Research objectives.
4. Location of review of literature.
5. Discrimination index.

SECTION B
(STATISTICS)

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

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 ($t = 2.365$ 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

II. Short answers on: **(5 x 2 = 10)**

1. Find Mode: 2, 3, 7, 8, 6, 4, 4, 1.
2. Explain measures of central tendency briefly.
3. Explain pie chart.
4. What are the uses of a Graph?
5. What are the types of Correlation?

[LI 1027]

FEBRUARY 2016

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 : 75 Marks

Answer ALL questions

SECTION – A

NURSING RESEARCH

I. Elaborate on:

(1 x 15 = 15)

1. a) Explain the characteristic of good research.
- b) List the methods of Quantitative Research.

II. Write notes on:

(5 x 5 = 25)

1. Research objectives.
2. Writing research report.
3. Hypotheses.
4. Data collection methods.
5. Online literature review.

III. Short answers on:

(5 x 2 = 10)

1. Types of variables.
2. Two principles of observation method of data collection.
3. Define research.
4. Types of validity.
5. What is Assumption?

SECTION – B

STATISTICS

I. Elaborate on:

(1 x 15 = 15)

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

II. Short answers on:

(5 x 2 = 10)

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

[LJ 1027]

AUGUST 2016

Sub. Code: 4733

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

PAPER III – NURSING RESEARCH & STATISTICS

Q.P. Code : 664733

Time: Three hours

Maximum : 75 Marks

**SECTION A
NURSING RESEARCH**

I. Elaborate on: (1 x 15 = 15)

1. Define sampling. Explain the types of sampling methods in detail with suitable examples.

II. Write notes on: (5 x 5 = 25)

1. Characteristics of good research.
2. Identification of problem area.
3. Historical research.
4. Bio-physiological measurements.
5. Communication of research findings.

III. Short answers on: (5 x 2 = 10)

1. Define reliability.
2. Types of hypothesis.
3. Write four important points of ethics in nursing research.
4. Types of survey method.
5. Write the purposes of literature review.

**SECTION B
STATISTICS**

I. Elaborate on : (1 x 15 = 15)

1. The weight and Hb values for the students of a public school are recorded and given below. Calculate the correlation coefficient for the data.

Weight	10	12	14	13	16	18
Hb value	7	8	7	8	10	10

II. Short answers on: (5 x 2 = 10)

1. Scales of measurement.
2. Write any four statistical packages.
3. Type II error.
4. Normal probability curve.
5. Classification of data.

[LK 1027]

FEBRUARY 2017

Sub. Code: 4733

**B.Sc. (Nursing) DEGREE EXAMINATION
(New Regulations for the candidates admitted from 2012-2013 onwards)**

**FINAL YEAR
PAPER III – NURSING RESEARCH & STATISTICS**

Q.P. Code : 664733

Time: Three hours

Maximum : 75 Marks

**SECTION A
NURSING RESEARCH**

I. Elaborate on: (1 x 15 = 15)

1. Explain experimental research designs with suitable examples.

II. Write notes on: (5 x 5 = 25)

1. Importance of nursing research.
2. Methods of data collection.
3. Criteria of good research problem.
4. Research variables.
5. Validity and reliability of an instrument.

III. Short answers on: (5 x 2 = 10)

1. What is descriptive research?
2. Define sampling.
3. State any four sources of literature review.
4. Mention two needs for research in nursing.
5. Define hypothesis.

**SECTION B
STATISTICS**

I. Elaborate on: (1 x 15 = 15)

1. a) What is statistics? Explain the importance of statistics in nursing.
b) Explain the scales or levels of measurement.

II. Short answers on: (5 x 2 = 10)

1. Mention any four common diagrams used in statistics.
2. Write two properties of normal distribution.
3. Find out the range of following data 7, 6, 4, 3, 8, 12.
4. Find the mean 7, 3, 5, 4, 6, 4, 5.
5. State the types of correlation.

[LL 1027]

AUGUST 2017

Sub. Code: 4733

B.Sc. (Nursing) DEGREE EXAMINATION
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FINAL YEAR
PAPER III – NURSING RESEARCH & STATISTICS

Q.P. Code : 664733

Time: Three hours

Maximum : 75 Marks

SECTION A
NURSING RESEARCH

I. Elaborate on: (1 x 15 = 15)

1. Describe non-experimental research design in detail with suitable examples.

II. Write notes on: (5 x 5 = 25)

1. Pilot study.
2. Difference between qualitative and quantitative research design.
3. List the components of a research report.
4. Review of Literature.
5. Need for research in nursing.

III. Short answers on: (5 x 2 = 10)

1. Define validity.
2. Sampling error.
3. Define Randomization.
4. Two purpose of survey methods.
5. List the components of critiquing published research.

SECTION B
STATISTICS

I. Elaborate on: (1 x 15 = 15)

1. What do you understand by central tendency? Describe the various measures.

II. Short answers on: (5 x 2 = 10)

1. List any two uses of statistics.
2. List four scales of measurement.
3. Formula for standard deviation.
4. Define mode.
5. What is confidence interval?

[LM 1027]

FEBRUARY 2018

Sub. Code: 4733

B.Sc. (Nursing) DEGREE EXAMINATION
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FINAL YEAR
PAPER III – NURSING RESEARCH & STATISTICS

Q.P. Code : 664733

Time: Three hours

Maximum : 75 Marks

SECTION A
NURSING RESEARCH

I. Elaborate on: (1 x 15 = 15)

1. Discuss the steps of nursing research process in detail.

II. Write notes on: (5 x 5 = 25)

1. Probability sampling techniques.
2. Research statement.
3. Sources of research problem.
4. Steps in literature review.
5. Types of experimental research designs.

III. Short answers on: (5 x 2 = 10)

1. State any four non-experimental research designs.
2. What is variable?
3. Mention any two types of validity.
4. Define pilot study.
5. Define population.

SECTION B
STATISTICS

I. Elaborate on: (1 x 15 = 15)

1. Find the mean respiratory rate/minute and its SD in the 9 samples which are given below:
23, 22, 20, 24, 16, 17, 18, 19 and 21.

II. Short answers on: (5 x 2 = 10)

1. List the uses of chi-square test.
2. Mention two uses of statistics in nursing research.
3. Draw Pie chart, Males - 40%, Females - 60%.
4. State the types of correlation.
5. Define histogram.

[LN 1027]

AUGUST 2018

Sub. Code: 4733

B.Sc. (Nursing) DEGREE EXAMINATION
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FINAL YEAR

PAPER III – NURSING RESEARCH & STATISTICS

Q.P. Code : 664733

Time: Three Hours

Maximum : 75 Marks

SECTION - A
NURSING RESEARCH

I. Elaborate on: (1 x 15 = 15)

1. Explain the purpose, scope, source and steps in Review of Literature.

II. Write notes on: (5 x 5 = 25)

1. Descriptive research.
2. Evidence based practice.
3. Sampling process.
4. Conceptual frame work.
5. Utilization of research findings.

III. Short answers on: (5 x 2 = 10)

1. List any four ethical principles in research.
2. Define research objectives.
3. Differentiate target and accessible population.
4. List any four bio-physiological measurements.
5. Write a research hypothesis statement.

SECTION - B
STATISTICS

I. Elaborate on: (1 x 15 = 15)

1. Discuss the test of significance procedures.

II. Short answers on: (5 x 2 = 10)

1. What is degree of freedom?
2. List any four data collection methods.
3. List the uses of chi-square test.
4. What is 'P' value?
5. Calculate standard deviation for the following data: 2, 5, 7, 12, 15.

[LO 1027]

FEBRUARY 2019

Sub. Code: 4733

B.Sc. (Nursing) DEGREE EXAMINATION
(New Regulations for the candidates admitted from 2012-2013 onwards)

FINAL YEAR

PAPER III – NURSING RESEARCH & STATISTICS

Q.P. Code: 664733

Time: Three Hours

Maximum : 75 Marks

SECTION - A
NURSING RESEARCH

I. Elaborate on: (1 x 15 = 15)

1. Define Sampling. Explain the types of sampling techniques with suitable examples.

II. Write notes on: (5 x 5 = 25)

1. Non - Experimental Research design.
2. Validity and reliability of instruments.
3. Differentiate between Quantitative and Qualitative research.
4. Observation methods of data collection.
5. Research Critique.

III. Short answers on: (5 x 2 = 10)

1. Write the uses of research in nursing.
2. Types of Hypothesis.
3. Define Randomization.
4. Types of writing research reports.
5. Types of rating scale.

SECTION - B
STATISTICS

I. Elaborate on: (1 x 15 = 15)

1. Calculate Correlation coefficient for the following data:

X: 2 4 6 8 10

Y: 3 9 4 6 4

II. Short answers on: (5 x 2 = 10)

1. Define Statistics.
2. Type I and Type II error.
3. Define range.
4. List two properties of normal probability curve.
5. Find the mean of the following data: 4, 5, 8, 2, 5.

[LP 1027]

AUGUST 2019

Sub. Code: 4733

B.Sc. (Nursing) DEGREE EXAMINATION
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FINAL YEAR

PAPER III – NURSING RESEARCH & STATISTICS

Q.P. Code: 664733

Time: Three Hours

Maximum : 75 Marks

SECTION - A
NURSING RESEARCH

I. Elaborate on: (1 x 15 = 15)

1. Explain the methods and tools of data collection with suitable examples.

II. Write notes on: (5 x 5 = 25)

1. Pilot study.
2. Criteria for selecting a good research problem.
3. Non-probability sampling techniques.
4. Qualitative research design.
5. Communication of research findings.

III. Short answers on: (5 x 2 = 10)

1. Define Nursing Research.
2. Define Manipulation.
3. Types of Variables.
4. Define reliability.
5. Write four characteristics of good research.

SECTION - B
STATISTICS

I. Elaborate on: (1 x 15 = 15)

1. What is central tendency? Explain in detail about various measures of central tendency.

II. Short answers on: (5 x 2 = 10)

1. List down the Non-parametric tests.
2. Mention the types of diagrams.
3. Define correlation.
4. List four scales of measurements.
5. Write the uses of student 't' test.

[LQ 1027]

FEBRUARY 2020

Sub. Code: 4733

B.Sc. (Nursing) DEGREE EXAMINATION
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FINAL YEAR

PAPER III – NURSING RESEARCH & STATISTICS

Q.P. Code: 664733

Time: Three Hours

Maximum : 75 Marks

SECTION – A
NURSING RESEARCH

I. Elaborate on: (1 x 15 = 15)

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

II. Write notes on: (5 x 5 = 25)

1. Dependent variable.
2. Ethics in research.
3. Types of Survey.
4. Case study research.
5. Quasi Experimental Research Design.

III. Short answers on: (5 x 2 = 10)

1. Define sampling error.
2. What is sampling criteria?
3. List any four characteristics of good hypothesis.
4. Define validity.
5. Write any four types of qualitative research.

SECTION – B
STATISTICS

I. Elaborate on: (1 x 15 = 15)

1. Explain the various methods of collecting statistical data.

II. Short answers on: (5 x 2 = 10)

1. Define probability.
2. Define vital statistics.
3. Find the mean of 8, 6, 4, 2, 9, 7.
4. List the levels of measurements.
5. Types of Bar Diagram.

(AUGUST 2020 SESSION)

B.Sc. (Nursing) DEGREE EXAMINATION

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FINAL YEAR

PAPER III – NURSING RESEARCH & STATISTICS

Q.P. Code: 664733

Time: Three Hours

Maximum : 75 Marks

SECTION - A
NURSING RESEARCH**I. Elaborate on:** (1 x 15 = 15)

1. List out the Characteristics of Good Research. Explain Quantitative Research in detail.

II. Write notes on: (5 x 5 = 25)

1. Research process.
2. Research objectives.
3. Dependent variable.
4. Types of Survey.
5. Steps in review of Literature.

III. Short answers on: (5 x 2 = 10)

1. Write a Null-Hypothesis statement.
2. List any four barriers in Evidence Based Practice.
3. Define target population.
4. List four purpose of Sampling.
5. State Hawthorne effect.

SECTION - B
STATISTICS**I. Elaborate on:** (1 x 15 = 15)

1. The following data represent a sample of the time to complete a certain task in minutes and seconds (mm:ss).
6:30, 11:15, 6:22, 11:32, 8:12, 5:02, 9:17, 6:51, 8:44, 7:45, 9:37, 7:28, 4:29, 7:42
 - a. Calculate the mean.
 - b. Calculate the standard deviation.

II. Short answers on: (5 x 2 = 10)

1. Define Incidence Rate.
2. Define Degrees of freedom?
3. List the types of 't' test.
4. List any four Diagrams used in Statistics.
5. Define Bio-statistics.

B.Sc. (Nursing) DEGREE EXAMINATION
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FINAL YEAR

PAPER III – NURSING RESEARCH & STATISTICS

Q.P. Code: 664733

Time: Three Hours

Maximum : 75 Marks

SECTION – A
NURSING RESEARCH

I. Elaborate on:

(1 x 15 = 15)

1. Explain Quantitative research designs with suitable examples.

II. Write notes on:

(5 x 5 = 25)

1. Steps of Research process.
2. Criteria of a good research problem.
3. Types of Sampling Techniques.
4. Ethical Principles in Research.
5. Bio physiological Measures.

III. Short answers on:

(5 x 2 = 10)

1. Types of survey method.
2. Write the purposes of literature review.
3. Randomization
4. Pilot study
5. Research objectives.

SECTION – B
STATISTICS

I. Elaborate on:

(1 x 15 = 15)

1. A study to evaluate the effect of cognitive behavioural therapy on wellbeing scores among cancer patients. A sample of 10 cancer patients was randomly selected and their wellbeing scores measured before CBT and again after 2 months of CBT. Are there any difference in mean wellbeing scores before and after CBT at $P < 0.05$ level? (Table Value is 2.262).

Before CBT: 2,4,5,7,8,10,3,3,3 and 12

After CBT: 22,12,10,20,19,22,20,23,26 and 14

II. Short answers on:

(5 x 2 = 10)

1. What is standard deviation?
2. Mention the Scales of Measurement?
3. What is Probability?
4. What are the uses of Statistics?
5. What is central tendency?

THE TAMIL NADU DR.M.G.R. MEDICAL UNIVERSITY

[BSCN 1122]

**NOVEMBER 2022
(AUGUST 2022 EXAM SESSION)**

Sub. Code: 4733

**B.Sc. (Nursing) DEGREE EXAMINATION
(Regulations for the candidates admitted upto 2012-2013)**

**FINAL YEAR
PAPER III – NURSING RESEARCH & STATISTICS
Q.P. Code: 664733**

Time: Three Hours

Maximum : 75 Marks

**SECTION – A
NURSING RESEARCH**

I. Elaborate on: (1 x 15 = 15)

1. a) What is Problem statement?
- b) What are the Criteria of a good research Problem?
- c) Write the types of statement of problem with example and formulate the objectives and hypothesis for it.

II. Write notes on: (5 x 5 = 25)

1. Types of Assumptions.
2. Critique of nursing research studies.
3. Stages of systemic review.
4. Bio Physiological parameters.
5. Dependent Variable.

III. Short answers on: (5 x 2 = 10)

1. Define plagiarism.
2. Write the types of closed ended question.
3. Expand PICO.
4. Define null hypothesis.
5. Define Target population.

**SECTION – B
STATISTICS**

I. Elaborate on: (1 x 15 = 15)

1. What is a statistical average? Describe the characteristics of a good statistical average.

II. Short answers on: (5 x 2 = 10)

1. Define probability.
2. Write the types of 't' test.
3. What is Cohort study?
4. Find the Mode of following data
2,3,3,5,3,4,3,3,3,4,2,2.
5. Define Incidence Rate.

THE TAMIL NADU DR.M.G.R. MEDICAL UNIVERSITY

[BSCN 1023]

**OCTOBER 2023
(AUGUST 2023 EXAM SESSION)**

Sub. Code: 4733

**B.Sc. (Nursing) DEGREE EXAMINATION
(Regulations for the candidates admitted up to 2012-2013)
FINAL YEAR
PAPER III – NURSING RESEARCH & STATISTICS
Q.P. Code: 664733**

Time: Three Hours

Maximum : 75 Marks

**SECTION - A
NURSING RESEARCH**

I. Elaborate on: (1 x 15 = 15)

1. Explain types and steps of Review of Literature.

II. Write notes on: (5 x 5 = 25)

1. Barriers to research utilization.
2. Importance of theory in research.
3. Systematic sampling with example.
4. Interview.
5. Requirements of a good sample.

III. Short answers on: (5 x 2 = 10)

1. Reliability.
2. Ordinal Scale.
3. Cluster sampling.
4. Population.
5. Control.

**SECTION – B
STATISTICS**

I. Elaborate on: (1 x 15 = 15)

1. The blood cholesterol level of ten persons are 240, 260, 290, 245, 255, 288, 272, 263, 247 and 257. Calculate the standard deviation of the given discrete data.

II. Short answers on: (5 x 2 = 10)

1. Statistical Package for Social Science.
2. Lottery method.
3. Scatter Diagram.
4. Classification of datas.
5. Write properties of normal distribution curve.

THE TAMIL NADU Dr. M.G.R. MEDICAL UNIVERSITY

[BSCN 0825]

AUGUST 2025

Sub. Code: 4733

**B.Sc. (Nursing) DEGREE EXAMINATION
(Regulations for the candidates admitted upto 2012-2013)**

FINAL YEAR

PAPER III – NURSING RESEARCH & STATISTICS

Q.P. Code: 664733

Time: Three Hours

Maximum : 75 Marks

**SECTION - A
NURSING RESEARCH**

I. Elaborate on: (1 x 15 = 15)

1. a) What is Review of Literature?
- b) What are the steps of Review of Literature? What are its uses?

II. Write notes on: (5 x 5 = 25)

1. Importance of Nursing Research.
2. Pilot study.
3. Non experimental Research design.
4. Evidenced based practice.
5. Data presentation.

III. Short answers on: (5 x 2 = 10)

1. Population.
2. Enlist any two characteristics of research objectives.
3. Classify any four types of validity.
4. Types of variables.
5. Enlist any four methods of research communication.

**SECTION – B
STATISTICS**

I. Elaborate on: (1 x 15 = 15)

1. What is Central tendency? Explain in detail about various measures of Central tendency.

II. Short answers on: (5 x 2 = 10)

1. Enlist any two significance of Bar Diagram.
2. Define Bio Statistics.
3. Mention any two statistical packages with its significance.
4. Type I and Type II error.
5. Enlist any four types of graphical representation of data.
