

First Year M.Sc. (Nursing) Examination
Nursing Research & Statistics

Date : 09-04-2014, Wednesday]

Time : 3 Hours]

[Max. Marks : 75

- Instructions : (1) Figure to the right indicate marks.
(2) Write legibly.
(3) Draw diagrams wherever necessary.
(4) Use separate answer book for each section.

Nursing
Research

SECTION - I

Que.1. Define following terms with example (Any Five) 10

- (1) Directional Hypothesis (2) Research Design (3) Extraneous Variable
(4) Target Population (5) Theory (6) Delimitation

Que.2. Answer following (Any Two) 12

- (a) Differentiates between Historical, Survey and experimental types of research.
(b) List the characteristic of good sample and discuss the methods of sampling.
(c) Discuss the types of Qualitative research

Que.3. Develop conceptual frame work and Data collection tools for following quasi Experimental type of research study. (7+7) 14

"A study to assess the effectiveness of planned teaching programme of Intravenous infusion therapy among staff Nurses who are working in Districts general hospitals of Gujarat state."

Que.4. Write short notes (Any Two) 14

- (a) Review of literature
(b) Validity and Reliability of the Tool
(c) Critical analysis of research article

SECTION - II

Que.5.(a) Find the average age (in yrs.) at the time of Death in city Ahmedabad. 05
from following data

Ago interval	No of Deaths
1-10	16
10-20	09
20-30	20
30-40	11
40-50	07
50-60	12
60-70	09
70-80	04
80-90	02

Que.5. (b) Discuss the Merits and Demerits of arithmetic Mean 05

Que.6. Pulse rate of 12 individual are given below 05

58, 66, 70, 74, 80, 86, 90, 100, 79, 96, 88, & 97.

Calculate (i) Standard Deviation & Variance (ii) Mean Deviation

Que. 7. (a) In a 9 patient following are the findings of Temperature and Pulse rate 05

Temp ; 98, 99, 100, 101, 102, 103, 104, 105, 100.

Pulse : 72, 80, 92, 111, 116, 128, 132, 130, 90.

Find correlation coefficient "r" between Temperature and pulse.

Que.7.(b) write short note (Any One) 05

- (1) Tabulation and Graphical presentation of the Data
(2) Normal Distribution probability curve

0413E164

First Year M.Sc. (Nursing) Examination
Nursing Research & Statistics

Candidate's Seat No : 6

Date : 06-04-2013, Saturday
Time : 3 Hours

[Max. Marks : 75]

- Instructions : (1) Figure to the right indicate marks.
(2) Write legibly.
(3) Draw diagrams wherever necessary.
(4) Use separate answer book for each section.

SECTION - I

Que. 1. Define following (Any Five) [10]

1. Research 2. Reliability 3. Hypothesis 4. Content Validity
5. Conceptual Frame work 6. Variable

Que. 2. Answer Following (5x2) [10]

- (a) List characteristic of True experimental design and explain any one of them
(b) Illustrate and discuss the Solomon four group experimental design with example

Que. 3. As a ward in charge you have identified that the rate infection following initiation Of IV Therapy has increase in ward.

- (a) Develop research problem statement for the above problem. [3]
(b) What would be your research approach for the above problem statement? [3]
(c) Draw the conceptual frame work for above Problem Statement [4]

Que. 4. Write Short Notes (Any Four) / Two [20]

- (i) Ethics in Nursing Research
(ii) Sample and Sampling Technique
(iii) Literature Review
(iv) Types of tools for Data collection
(v) Reporting and utilizing Research findings

SECTION - II

Que. 5. The following is the frequency distribution of 500 workers according to [05]

Their weekly income (In Rs) Find the average income

Income: 0-50	50-100	100-150	150-200	200-250	250-300
Person: 90	150	100	80	70	10

Que. 6. Explain (i) Graphical Presentation of the data [05]

(ii) Tabular Presentation of the data.

OR

Que. 6. Following numbers give the incubation period in days in ten consecutive Patient of infectious hepatitis: 26, 22, 36, 15, 27, 19, 24, 18, 23, 25.
Calculate standard deviation [10]

Que. 7(A) In 9 patient following are the findings of temperature and pulse rate
Temperature: 98 99 100 101 102 103 104 105 100
Pulse Rate: 72 80 92 111 116 128 132 110 90
Find out correlation coefficient between temperature and pulse and list the properties of correlation coefficient. [05]

(B) Explain any two

- i. Split Half method
ii. Merit and demerit of the Mean
iii. Vital Health Statistic

SECTION II

Q1. Memory capacity of 10 students was tested before and after training. State whether the training was effective or not from the following scores at level of significance of 5%.

Roll No.	1	2	3	4	5	6	7	8	9	10
Before Training	12	14	11	8	7	10	3	0	5	6
After Training	15	16	10	7	5	12	10	2	3	8

For 9 d.f. at 5% level of significance table value of $t=2.26$

(10)

OR

Q1. Compute the correlation coefficient between X and Y

X	2	4	5	6	8	11
Y	18	12	10	8	7	5

(10)

Q2. In the estimation of regression equation of two variables the following results were obtained. Obtain the two regression equations.

$$\bar{X} = 90 \quad \bar{Y} = 70 \quad \sum(X - \bar{X})(Y - \bar{Y}) = 3900 \quad n = 10$$

$$\sum(X - \bar{X})^2 = 6360 \quad \sum(Y - \bar{Y})^2 = 2860 \quad (423-55) \quad (10)$$

OR

Q2. Calculate the Median and mode from the following data

Marks	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90
No. of Students	2	6	12	18	25	20	10	7

(10)

(5)

Q3. Write short notes on any two

1. Type I and Type II error
2. Properties of Normal Curve
3. Graphical and tabular Presentation of Data
4. Use of Statistical packages

SECTION-II
(STATISTICS)

Q.1(a) Explain mean and quartile deviation with examples. [5]

(b) Calculate standard deviation and 25th percentile from the following frequency distribution: [5]

<u>Marks</u>	<u>No. of Students</u>	<u>Marks</u>	<u>No. of Students</u>
0-10	9	40-50	18
10-20	14	50-60	19
20-30	16	60-70	21
30-40	38		

OR

Q.1(a) Calculate median and mode from the following frequency distribution: [5]

<u>Variable</u>	<u>Frequency</u>	<u>Variable</u>	<u>Frequency</u>
10-15	8	30-35	20
15-20	10	35-40	15
20-25	15	40-45	9
25-30	31		

(b) Explain: (i) Scatter diagram method

(ii) Randomized block design. [5]

Q.2(a) Obtain the rank correlation coefficient between variables X and Y from the following data: [5]

X: 78 89 99 60 58 80 68 62
Y: 126 136 156 112 108 137 123 109

(b) From the following data, use chi-square test and conclude whether inoculation is effective in preventing tuberculosis: [5]

	<u>Attacked</u>	<u>Not attacked</u>
Inoculated	32	267
Not inoculated	86	914

Given that $\chi^2 = 3.84$ at 5% level of significance for 1 degree of freedom.

First Year M.Sc. (Nursing) Examination
Nursing Research & Statistics

Date : 07-04-2018, Saturday]
Time : 3 Hours]

[Max. Marks : 75

- Instructions :** (1) Figure to the right indicate marks.
(2) Write legibly.
(3) Draw diagrams wherever necessary.
(4) Use separate answer book for each section.

Section-I (50 Marks)

- Q. 1. a) Define Research. 3+6+6=15
b) Enlist the features of good research.
c) Ex-post Facto Design.
- Q. 2. a) Define Dependent variable. 3+6+6=15
b) What is the importance of Conceptual framework.
c) Write steps of literature review.
- Q. 3. Write explanatory notes on any four of the following. 4X5=20
a) Snowball sampling.
b) Types of Sampling technique.
c) Rating Scale.
d) Observation method
e) Qualitative research method.

Section-II (25 Marks)

- Q. 4. a) Level of Measurement. 2+5+6=13
b) Criteria for selection of good research problem.
c) Patient staying in Hospital for Schizophrenia 50 and Neurotic 72
carryout the significant of difference between the mean level of
Schizophrenia and Neurotic.
- Q. 5. Write explanatory notes on any three of the following. 4X3=12
a) Pitman's permutation test.
b) Ethical consideration.
c) Likert Scale.
d) Use of Regression in research.

2/68

0419E146

Candidate's Seat No : _____

First Year M.Sc. (Nursing) Examination
Nursing Research & Statistics

[Max. Marks : _____]

Date : 08-04-2019, Monday]
Time : 3 Hours]

- Instructions :**
- (1) Figure to the right indicates marks.
 - (2) Write legibly and to the point.
 - (3) Draw diagrams wherever necessary.
 - (4) Write each section in separate answer books.

Section: I (Marks 50)

4 + 6 =

Que.1

- (a) What is Research? What is the Scope in Nursing?
- (b) Discuss the concept of Evidence Based Practice.

OR

- (a) Why review of Literature is important in Research?
- (b) Discuss the overview of Nursing Research Process.

4 + 6 =

Que.2

- (a) List different types of "Research Approaches"
- (b) Discuss the steps in "Review of Literature".

Que.3 Differentiate between the following. Support your answer with examples. 5 X

- (1) Hypothesis and Assumption
- (2) Experimental and Quasi Experimental Design.
- (3) Quantitative and Qualitative Research.
- (4) Probability and Non- Probability Sampling.
- (5) Limitations and Delimitations in Research Project.

Que.4 Write Short Notes on any four:

- (1) Pilot Study
- (2) Critiquing a research article
- (3) Content Validity
- (4) Ethics in Research
- (5) Formulation or Research Tool
- (6) Conceptual Framework

0419E146(2)

Section: II Statistics (Marks 25)

Que.5

10

- (a) Define Probability and Explain Characteristics of a Normal curve.
- (b) Describe with the help of examples different methods of Sampling.

OR

Calculate if there is significant difference in mean blood pressure of 4 groups in order to assess the role of occupation in causation of blood pressure:

10

Officers	Clerks	Lab. Technicians	Attendants
125	120	115	118
130	122	115	120
135	110	120	118
120	115	130	120
115	125	120	120
120	122	125	115
130	120	122	120
135	120	115	115
135	126	126	125
140	120	118	125

Table F value for 3 degree of freedom across ($\rightarrow$) and 36 degree of freedom vertically at 5% level of Significance = 2.86.

Que.6 Write Short Notes (Any Three)

5 X 3 = 15

1. Steps involved in Testing of hypothesis.
2. Uses of vital statistics.
3. Explain how linear regression equations are useful in prediction.
4. Normal distribution.
5. Chi-Square test.

(7)

Harvi

1/15

1013E055

Candidate's Seat No : _____

First Year M.Sc. (Nursing) Examination
Nursing Research & Statistics

Date : 05-10-2013, Saturday]

[Max. Marks : 75

Time : 3 Hours]

- Instructions :
- (1) Figure to the right indicates full marks.
 - (2) Draw figure when ever required.
 - (3) Write each section use the seperate answer book
 - (4) Answer to each sections in separate answer books.

SECTION - I

Que.1. Define following terms (Any Five)

10

- | | | |
|-----------------|-------------------------|---------------------------|
| (1) Reliability | (2) Extraneous variable | (3) Delimitation |
| (5) Concept | (5) Abstract | (6) Conceptual frame work |

Que.2. Elaborate on any two

14

- (a) Types of variables.
- (b) Methods of inquiring knowledge
- (c) Types and criteria for formulation of the hypothesis.

Que.3. Develop a data collection tool for measuring knowledge, Attitude and practice
To prevent bed sore among patient for staff nurses who are working in ICU

12

Que.4. Write Short notes (Any two)

14

- (1) Review of literature
- (2) Qualitative research approach.
- (3) Scope and area of nursing research

SECTION - II

Que.5. List the Merits and demerits of Mode

05

OR.

Que.5. Write in short about presentation of the data and tabulation

05

Que. 6. During 6th May 2012 the maximum daily temperature (in degree centigrade) in city Ahmadabad happened to be 38, 40, 42, 41, 39, 42, 40, 38, 41 & 39. Find Mean Deviation and SD of Temperature

05

Que.7. Calculate the Mean, Mode and Median for the following series.

15

2010 2012 2038 2032 2010 2043 2027 2086.

0412 E 138-3

OR

[5]

Q.2(a) Define normal distribution and state its characteristics.

(b) A certain stimulus administered to each of the 12 patients resulted in the following increase of blood pressure:

7, 3, 8, -2, 4, 0, -3, 2, 6, 1, 5 and 9

Can it be concluded that the stimulus will, in general, be accompanied by an increase in blood pressure? Given that $t = 1.80$ at 5% level of significance for 11 degrees of freedom.

[5]

[5]

Q.3 Explain any two of the following terms:

- (i) Frequency distribution
- (ii) Sign test
- (iii) Split half method
- (iv) Measures of mortality



(S)

0412E138

Candidate's Seat No : _____

First Year M.Sc. (Nursing) Examination

Nursing Research & Statistics

Date : 10-04-2012, Tuesday]

Time : 3 Hours]

[Max. Marks : 75

- Instructions : (1) Figure to the right indicates full marks.
(2) Write legibly.
(3) Draw diagram wherever necessary.
(4) Each section use the separate answer book

SECTION - I

Q.1 Define the following (any five):

- a) Variable
- b) Reliability
- c) Evidence based practice
- d) Research Design
- e) Deductive Reasoning
- f) Content Validity

10

Q.2 a) Discuss briefly Historical Evolution of 'Research in Nursing'.

5, 5

b) How will you identify a problem for your M.Sc. thesis?

Q.3 Differentiate between the following:

- a) Assumption vs Hypothesis
- b) Limitation vs Delimitation
- c) Quantitative vs Qualitative Research Methods
- d) True Experimental vs Quasi Experimental Design
- e) Basic vs Applied Research

2x5= 10

Q.4 Develop a data collection tool to gather information from First Year B.Sc. nursing students about their knowledge of HIV/AIDS.

10

Q. 5 Write short notes on any two of the following:

- a) Conceptual Frame work
- b) Ethics in Nursing Research
- c) Literature Review

5x2=10

[P.T.O.]

0411E106

Candidate's Seat No : _____

First Year M.Sc. (Nursing) Examination
Nursing Research & Statistics

Date : 06-04-2011, Wednesday]

Time : 3 Hours]

[Max. Marks : 75

- Instructions : (1) Figure to the right indicates full marks.
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(3) Draw diagram wherever necessary.
(4) Each section use the separate answer book

SECTION I

1. Define following (any five) :

- (a) Content validity
- (b) Pilot Study
- (c) Probability
- (d) Assumption
- (e) Ethnography
- (f) Variables.

2. (a) Explain empirical phase of nursing research.

(a) Explain sources of research problem.

3. (a) What information you must provide to the respondent before collection of data.

(a) Explain characteristics of true experimental study.

4. Explain conceptual frame work with example.

5. Write short notes (any two) :

- (a) Statistical analysis
- (b) Purposive sampling techniques
- (c) Research tool
- (d) Qualitative research.

$$\Sigma Y = na + b \Sigma X$$

$$\Sigma XY = \Sigma Xa + b \Sigma X^2$$

0411E106

Candidate's Seat No : _____

First Year M.Sc. (Nursing) Examination
Nursing Research & Statistics

Date : 06-04-2011, Wednesday]

Time : 3 Hours]

[Max. Marks : 75

- Instructions : (1) Figure to the right indicates full marks.
(2) Write legibly.
(3) Draw diagram wherever necessary.
(4) Each section use the separate answer book

SECTION I

10

Q1 Define following (any five) :

- (a) Content validity
- (b) Pilot Study
- (c) Probability
- (d) Assumption
- (e) Ethnography
- (f) Variables.

- Q2 (a) Explain empirical phase of nursing research.
(a) Explain sources of research problem.

- Q3 (a) What information you must provide to the respondent before collection of data.
(a) Explain characteristics of true experimental study.

Q4 Explain conceptual frame work with example.

Q5 Write short notes (any two) :

- (a) Statistical analysis
- (b) Purposive sampling techniques
- (c) Research tool
- (d) Qualitative research.

$$\Sigma Y = na + b \Sigma X$$

$$\Sigma XY = \Sigma Xa + b \Sigma X^2$$

0411E106(2)

$$t = \frac{\bar{x} - \bar{y}}{\sqrt{s^2 \left(\frac{1}{n_1} + \frac{1}{n_2} \right)}}$$

SECTION II

- Q1. Memory capacity of 10 students was tested before and after training. State whether the training was effective or not from the following scores at level of significance of 5%.

Roll No.	1	2	3	4	5	6	7	8	9	10
Before Training	12	14	11	8	7	10	3	0	5	6
After Training	15	16	10	7	5	12	10	2	3	8

For 9 d.f. at 5% level of significance table value of $t=2.26$

(10)

OR

- Q1. Compute the correlation coefficient between X and Y

X	2	4	5	6	8	11
Y	18	12	10	8	7	5

$$r(x, y) = \frac{\sum x_i y_i - \bar{x} \bar{y}}{\sqrt{\frac{1}{n} (\sum x_i^2 - n \bar{x}^2) \frac{1}{n} (\sum y_i^2 - n \bar{y}^2)}}$$

(10)

- Q2. In the estimation of regression equation of two variables the following results were obtained. Obtain the two regression equations.

$$\bar{X} = 90 \quad \bar{Y} = 70 \quad \sum (X - \bar{X})(Y - \bar{Y}) = 3900 \quad n = 10$$

$$\sum (X - \bar{X})^2 = 6360 \quad \sum (Y - \bar{Y})^2 = 2860$$

OR

$$r(x, y) = \frac{\sum (x - \bar{x})(y - \bar{y})}{\sqrt{\frac{1}{n} (\sum (x - \bar{x})^2) \frac{1}{n} (\sum (y - \bar{y})^2)}}$$

- Q2. Calculate the Median and mode from the following data

Marks	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90
No. of Students	2	6	12	18	25	20	10	7

$$M = L + \frac{(N/2 - \sum f)}{f}$$

$$Z = L + \frac{(N/2 - \sum f)}{f}$$

- Q3. Write short notes on any two

(5)

1. Type I and Type II error
2. Properties of Normal Curve
3. Graphical and tabular Presentation of Data
4. Use of Statistical packages

First Year M.Sc. (Nursing) Examination

Nursing Research & Statistics

Date : 08-04-2010, Thursday]

[Max. Marks : 75

Time : 3 Hours]

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 (2) Write legibly.
 (3) Draw diagram wherever necessary.
 (4) Each section use the separate answer book

(Research)
Section - I

- 1 (a) What is scope and importance of research in Nursing ? 10
 (b) Describe elements of research.

OR

- 1 (a) Describe the role of research in improving nursing services. 10
 (b) Discuss various types of research.

- 2 (a) Write the characteristics of experimental research. 10
 (b) What is the importance of reporting research findings ? Give examples. 20

- 3 Write short notes on any *four* of the following :

- (a) Interview method
 (b) Critiquing a research article
 (c) Selection of research problem
 (d) Qualitative analysis
 (e) Variables
 (f) Population
 (g) Factors influencing sampling.

10

- 4 Differentiate between the following with suitable examples :

- (a) Null and alternate hypothesis
 (b) Dependent and Independent variables
 (c) Pilot and main study
 (d) Quantitative and qualitative data analysis
 (e) Reliability and validity of research tool.

[P.T.O.]

Section - II

(STATISTICS)

Q.1.a. Explain test-retest method. *Spearman* [5]

Q.1.b. Calculate the rank correlation coefficient from the following data: [5]

X: 67	65	68	66	67	69	70	72	78	74
Y: 63	64	68	67	72	72	69	74	75	71

OR

Q.1.a. Prepare a frequency table by taking the class intervals 10-14, 14-18 and so on from the following data: [3]

10 16 14 24 12 18 17 26 29 20
 25 26 32 14 17 20 34 27 30 11
 17 16 27 35 18 31 21 39 33 41
 36 13 11 17 20 22 28 19 37 33

Q.1.b. Calculate median and mode from the following frequency distribution: [7]

<u>Variable</u>	<u>Frequency</u>	<u>Variable</u>	<u>Frequency</u>
10-20	17	50-60	26
20-30	19	60-70	29
30-40	15	70-80	19
40-50	45		

Q.2.a. Obtain the regression of Y on X, and X on Y from the following data and estimate the blood pressure when the age is 48 years: [5]

Age in years (X): 56 43 71 37 65 47 56 49 39 61
 Blood Pressure (Y): 148 126 162 119 148 130 152 146 117 153

Q.2.b. X is normally distributed and the mean of X is 12 and standard deviation is 4. Find the probability of the following: [5]

(i) $X \geq 20$, (ii) $X \leq 20$ and (iii) $8 \leq X \leq 12$.

Given $P(z = 1) = 0.3413$, $P(z = 2) = 0.4772$, $P(z = 3) = 0.4987$.

Date : 10-04-2012, Tuesday]

Time : 3 Hours]

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SECTION - I

Q.1 Define the following (any five):

- a) Variable
- b) Reliability
- c) Evidence based practice
- d) Research Design
- e) Deductive Reasoning
- f) Content Validity

10

Q.2 a) Discuss briefly Historical Evolution of 'Research in Nursing'.

b) How will you identify a problem for your M.Sc. thesis?

5, 5

Q.3 Differentiate between the following:

- a) Assumption vs Hypothesis
- b) Limitation vs Delimitation
- c) Quantitative vs Qualitative Research Methods
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2x5= 10

Q.4 Develop a data collection tool to gather information from First Year B.Sc. nursing students about their knowledge of HIV/AIDS.

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- a) Conceptual Frame work
- b) Ethics in Nursing Research
- c) Literature Review

5x2=10

[P.T.O.]

Section - II

(STATISTICS)

Q.1.a. Explain test-retest method.

[5]

Q.1.b. Calculate the rank correlation coefficient from the following data:

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[5]

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Q.2.b. X is normally distributed and the mean of X is 12 and standard deviation is 4. Find the probability of the following:

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(i) $X \geq 20$, (ii) $X \leq 20$ and (iii) $8 \leq X \leq 12$.Given $P(z = 1) = 0.3413$, $P(z = 2) = 0.4772$, $P(z = 3) = 0.4987$.

First Year M.Sc. (Nursing) Examination

Nursing Research & Statistics

Date : 08-04-2010, Thursday]

[Max. Marks : 75

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(Research)
Section - I

- | | | |
|---|--|----|
| 1 | (a) What is scope and importance of research in Nursing ? | 10 |
| | (b) Describe elements of research. | |
| | OR | |
| 1 | (a) Describe the role of research in improving nursing services. | 10 |
| | (b) Discuss various types of research. | |
| 2 | (a) Write the characteristics of experimental research. | 10 |
| | (b) What is the importance of reporting research findings ? Give examples. | |
| 3 | Write short notes on any <i>four</i> of the following : | 20 |
| | (a) Interview method | |
| | (b) Critiquing a research article | |
| | (c) Selection of research problem | |
| | (d) Qualitative analysis | |
| | (e) Variables | |
| | (f) Population | |
| | (g) Factors influencing sampling. | |
| 4 | Differentiate between the following with suitable examples : | 10 |
| | (a) Null and alternate hypothesis | |
| | (b) Dependent and Independent variables | |
| | (c) Pilot and main study | |
| | (d) Quantitative and qualitative data analysis | |
| | (e) Reliability and validity of research tool. | |

[P.T.O.]

Section - II

(STATISTICS)

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Age in years (X): 56 43 71 37 65 47 56 49 39 61
 Blood Pressure (Y): 148 126 162 119 148 130 152 146 117 153

Q.2.b. X is normally distributed and the mean of X is 12 and standard deviation is 4. Find the probability of the following: [5]

(i) $X \geq 20$, (ii) $X \leq 20$ and (iii) $8 \leq X \leq 12$.

Given $P(z = 1) = 0.3413$, $P(z = 2) = 0.4772$, $P(z = 3) = 0.4987$.

GUJARAT INSTITUTE OF MENTAL HEALTH

Ahmedabad

First Year M.Sc. Nursing Exam

Nursing
Research

Total marks 50

First Term Exam

Time : 2 Hours Subject: NURSING RESEARCH AND STATISTICS

Instruction:

- (1) Figure to the right indicate full marks
- (2) Write legibly
- (3) Describe diagram where ever necessary

Q --1 Define Following Terms (any Five)

1. Reliability
2. Sampling Error
3. Attrition

4. Hypothesis
5. Standard Deviation
6. Research Design

(10)

Q - 2 Describe elements of Nursing Research

Q - 3 Write short note (any Two)

- (a) Quasi-experimental Design
- (b) Sample and sampling Techniques
- (c). Ethics in Nursing Research

(4)

(10)

Q - 4 Write Difference with example

- (1) Null and Alternate hypotheses
- (2) Basic and Applied Research
- (3) Dependent and Independent Variables

(6)

Q - 5 prepare frequency table with each class interval at 10 and first class interval as 50-60

82	84	50	70	92	125	51	71	75	93
63	120	56	94	60	77	88	89	66	75
78	79	114	90	89	89	62	83	69	91
76	59	87	100	94	94	52	74	74	80
82	60	89	62	113	106	61	96	88	104

(8) (8)

Q 6 - Calculate the mean deviation about mean and standard deviation from the following

Size of item	Frequency	Size of Item	Frequency
30-40	3	70-80	15
40-50	7	80-90	12
50-60	12	90-100	8
60-70	20		

(10) C₁

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Gujarat Institute of Nursing Education and Research
First year M.sc. Nursing
Second term Exam (2016-2017)
Nursing Research & Statistics

Date: 09/03/2017

- 1(a) Define sampling.
 (b) Describe the Sampling Technique?

Marks: 50

02

08

(4x5=20)

- 2 write short notes (Any four)

1. Factors influencing Sampling

3. Chi-square test

2. Pilot Study

4. Vital Health Statistics

5. Importance of Conceptual Framework in Research

3 (A)

core of 10 engineering students in final examination is given below. Calculate standard deviation for score.

08

	240	260	290	245	255	288	272	263	277	251
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Describe the uses of computers for data analysis

06

Parametric test

06