



54008

First M.Sc. Nursing Examination, Summer 2018
NURSING RESEARCH AND STATISTICS – IV

Total Duration : Section I + II = 3 Hours

Total Marks : 75

SECTION – I and SECTION – II

Instructions :

- 1) Use **blue/black** ball point pen only.
- 2) **Do not** write anything on the **blank portion of the question paper**. If written anything, such type of act will be considered as an attempt to resort to unfair means.
- 3) **All** questions are **compulsory**.
- 4) The number to the **right** indicates **full** marks.
- 5) Draw diagrams **wherever** necessary.
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- 7) **Use** a common answerbook for **all** Sections.

SECTION – I (50 Marks)

(RESEARCH)

1. Long answer question : (3+4+5=12)
 - a) Define research design and explain its importance. 3
 - b) Explain the characteristics of good research. 4
 - c) Discuss various types of quantitative research design. 5
2. Long answer question : (3+4+5=12)
 - a) Define reliability & validity of the measuring instruments. 3
 - b) Explain the types of measurement errors. 4
 - c) Describe the methods for assessing reliability & validity of measuring instruments. 5
3. Long answer question : (2+4+5=11)
 - a) Define target & accessible population. 2
 - b) Discuss advantages & disadvantages of non probability sampling technique. 4
 - c) Discuss merits & demerits of observation as a data collection instrument with examples. 5

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4. Write short notes (**any three** out of five) :

- a) Steps of publishing a research article.
- b) Research hypothesis.
- c) Meta analysis.
- d) Close ended questions.
- e) Purposes of review of literature.

SECTION – II (25 Marks)

(STATISTICS)

5. Long answer question :

(4+6=10)

- a) Define sampling. Explain the classification.
- b) Briefly discuss any method of sampling.

6. Write short notes (**any three** out of five) :

(3×5=15)

- a) Level of significance.
 - b) Evidence based nursing.
 - c) Chi square test.
 - d) Use of vital statistics.
 - e) Sample size for estimating CI for population proportion.
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SECTION – I (50 Marks)

(RESEARCH)

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 - a) Define target & accessible population. 2
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4. Write short notes (**any three** out of five) :

(3×5=15)

- a) Steps of publishing a research article.
- b) Research hypothesis.
- c) Meta analysis.
- d) Close ended questions.
- e) Purposes of review of literature.

SECTION – II (25 Marks)

(STATISTICS)

5. Long answer question :

(4+6=10)

- a) Define sampling. Explain the classification.
- b) Briefly discuss any method of sampling.

4

6

6. Write short notes (**any three** out of five) :

(3×5=15)

- a) Level of significance.
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-



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First M.Sc. Nursing Examination, Summer 2017
NURSING RESEARCH AND STATISTICS – IV

Duration : 3 Hours

Total Marks : 75

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SECTION – I (50 Marks)
(Research)

Long answer question : (3+4+5=12)

- 1) Define evidence based nursing. List the purposes of evidence based nursing practice. 3
- 2) Explain the principles of ethics applicable to nursing research. 4
- 3) Enumerate Qualitative Research Designs and explain any two in detail. 5

Long answer question : (3+4+5=12)

You would like to find the reasons for decrease in the quality of nursing education. Answer the following on the basis of this statement :

- 1) Develop a problem statement for your study. 3
- 2) Describe pilot study in terms of definition and importance. 4
- 3) What are the components of a research proposal ? 5

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ng answer question :

(2+4+5=11)

What is the difference between content, construct and face validity of an instrument ? 2

Discuss non probability sampling techniques. 4

Describe data presentation techniques. 5

ite short answer (**any three** out of five) :

(3×5=15)

Descriptive analysis.

Methods of testing Reliability of a tool.

Purposes of using theoretical frameworks in nursing research.

Types of hypothesis.

Inductive reasoning.

SECTION – II (25 Marks) (Statistics)

ng answer question :

(4+6=10)

Define Vital statistics. Enumerate the uses of vital statistics. 4

Describe measures of Central Tendency. 6

rite short answer (**any three** out of five) :

(3×5=15)

) Standard deviation.

) Latin squares design.

) Use of statistical packages.

) Rank order correlation.

) Normal Distribution.

First Year M.Sc. Nursing Examination, Winter 2016
NURSING RESEARCH AND STATISTICS – IV

Total Duration : 3 Hours

Total Marks : 75

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 - 7) **Use** a common answerbook for **all** section.

SECTION – A
(Research)

(50 Marks)

1. Long answer question. **(3+4+5=12)**
 - a) Explain the scope of research in India. **3**
 - b) Explain the criteria for selecting good research problem. **4**
 - c) Discuss briefly code of ethics in research. **5**
2. Long answer question. **(3+4+5=12)**
 - a) Define research design and list down the elements of research design. **3**
 - b) Classify non experimental design and explain advantages and disadvantages of non experimental design. **4**
 - c) Discuss Ethnographic research as a qualitative research with example. **5**
3. Long answer question. **(2+4+5=11)**
 - a) Define reliability and validity. **2**
 - b) How you will measure the reliability for research tool ? **4**
 - c) Explain the purposes and procedure for conducting pilot study. **5**

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4. Short answer question (**any three** out of five) :
- a) Power analysis.
 - b) Snowball sampling and its merits and demerits.
 - c) Assumption.
 - d) Steps for writing literature review.
 - e) Methods of communication of research.

(3x5=15)

SECTION – II
(Statistics)

(25 Marks)

5. Long answer question.
- a) Explain the uses and application of statistics in nursing.
 - b) Explain the most commonly used measures of dispersion.
6. Short answer question (**any three** out of five) :
- a) Analysis of variance.
 - b) Graphical presentation of data.
 - c) Type I and Type II error.
 - d) Computer analysis of quantitative data.
 - e) Uses and sources of vital statistics.

(4+6=10)

4

6

(3x5=15)

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First Year M.Sc. Nursing Examination, Summer 2016
NURSING RESEARCH AND STATISTICS – IV

Total Duration : 3 Hours

Total Marks : 75

- Instructions :**
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 - 3) **All** questions are **compulsory**.
 - 4) The number to the right indicates **full** marks.
 - 5) Draw diagrams **wherever** necessary.

SECTION – I (50 Marks)

(Research)

1. Long Answer Question : (3+4+5=12)
 - a) Define data and enlist the purposes of data collection. 3
 - b) Discuss the critical analysis of research reports and articles. 4
 - c) Explain the importance of pilot study. 5
2. Long Answer Question : (3+4+5=12)
 - a) Define experimental and non-experimental research. 3
 - b) Discuss the validity of research design. 4
 - c) Explain any two types of probability sampling technique. 5
3. Long Answer Question : (2+4+5=11)
 - a) Define conceptual framework. 2
 - b) Discuss the empirical and theoretical sources of review of literature. 4
 - c) Discuss the various sources of research problems. 5
4. Write Short Answer (**any three** out of five) : (3×5=15)
 - a) Evidence based nursing practice.
 - b) Vancouver style.
 - c) Types of assumption.
 - d) Generalization of research finding.
 - e) Inductive and deductive reasoning.

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SECTION – II (25 Marks)
(Statistics)

5. Long Answer Question : (4+6=10)
- a) Define central tendency and explain with an example. 4
 - b) Discuss the measures related to fertility, mortality and morbidity. 6
6. Write Short Answer (**any three** out of five) : (3×5=15)
- a) Quartile deviation.
 - b) Scatter diagram.
 - c) ANOVA.
 - d) Test-Retest method.
 - e) Frequency distribution.
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First M.Sc. Nursing, Winter 2015
Nursing Research and Statistics - IV

Total Duration : 3 Hours

Total Marks : 75

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- 7) Use a common answer book for all section.

Section "I" (50 Marks)
(Research)

1. Long Answer :

(3+4+5=12)

- a) Briefly explain the significance of research in nursing. 3
- b) Explain the characteristics and limitations of scientific method. 4
- c) Discuss the ethics in nursing research. 5

2. Long Answer :

(3+4+5=12)

- a) Which are the characteristics of good sample? 3
- b) What is power analysis? 4
- c) Discuss the sampling process in research study. 5

3. Long Answer :

(2+4+5=11)

- a) Enlist the factors affecting selection of research design. 2
- b) How is the reliability of research tool done? 4
- c) Discuss interview as a method of data collection. 5

4. Short Answer Question (**any three** out of five) :

(3x5=15)

- a) Critical analysis of research study.
- b) Explain the key electronic databases in literature review.
- c) Discuss Grounded theory as a research design.
- d) Conceptual framework.
- e) Semantic differential scale.

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Section "II" (25 Marks)
(Statistics)

5. Long Answer :

- a) Explain the applications of statistics in nursing.
- b) What is null hypothesis? Explain the steps for testing hypothesis.

(4+6=10)

4

6

6. Short Answer Question (any three out of five) :

(3x5=15)

- a) Laws of probability.
- b) Discuss about Arithmetic mean and its merits and demerits.
- c) Simple linear regression.
- d) Graphical representation of data.
- e) Statistical package.



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First M.Sc. (Nursing) Examination, Summer 2015
NURSING RESEARCH AND STATISTICS – IV

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SECTION – A & SECTION – B

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 - 7) **Use** common answer book for **all** Sections.

SECTION – A (50 Marks)

(Research)

1. Long answer. (3+4+5=12)
 - a) Explain inductive and deductive reasoning. 3
 - b) Explain the characteristics of good research. 4
 - c) Discuss the steps of qualitative research process. 5
2. Long answer. (3+4+5=12)
 - a) List down the components of problem statement. 3
 - b) Explain the need of stating research objective and explain its characteristics. 4
 - c) Explain the various types of hypothesis with example. 5
3. Long answer. (2+4+5=11)
 - a) List down non experimental research design. 2
 - b) Discuss about correlational research design. 4
 - c) Explain about internal validity of research design and discuss the threats to the internal validity. 5

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4. Short answer question (**any three** out of five) :

(3x5=15)

- a) Enlist and describe the essential parts of scientific publication.
- b) Skills needed for writing literature review.
- c) Problems encountered by researcher during sampling process.
- d) Types of data for qualitative studies.
- e) Types of snowball sampling and its merits and demerits

SECTION – B (25 Marks)

(Statistics)

5. Long answer.

(4+6=10)

- a) What do you mean by descriptive and inferential statistics?
 - b) Discuss the four levels of measurement in statistics.
6. Short answer question (**any three** out of five) :
- a) Measures of location.
 - b) Tabulation.
 - c) Logistic regression.
 - d) Application of computers in biostatistics.
 - e) Confidence interval (CI).

4

6

(3x5=15)

Instructions:

- 1) Use blue/black ball point pen only.
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- 3) All questions are compulsory.
- 4) The number to the right indicates full marks.
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- 7) Use a common answer book for all section.

Section "I" (50 Marks)

(Research)

1. Long answer question (3+4+5=12)
 - a) Define the term research design 3
 - b) Explain the characteristics of good research design 4
 - c) Discuss the various types of quantitative research design 5

- Long answer questions (3+4+5=12)
 - a) Define reliability of measuring instruments 3
 - b) What are the factors affecting reliability 4
 - c) Describe the methods for assessing the reliability of measuring instruments 5

3. Long Answer question (2+4+5=11)
 - a) Give the characteristics of true experimental design 2
 - b) Discuss the strengths and limitations of experimental design 4
 - c) Elaborate the steps of experimental design 5

4. Short answer question (any three out of five) : (3x5=15)
 - a) Research hypothesis
 - b) Ethical principles in conducting nursing research
 - c) Factors affecting validity and reliability of a Research Tool
 - d) Sources of research problem.
 - e) Characteristics of Conceptual theories.

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Section "II" (25 Marks)
(Statistics)

5. Long answer question

- a) Define sampling. Explain the classification.
- b) Briefly discuss any one method of sampling.

6. Short answer question (any three out of five) :

- a) Uses of vital statistics.
 - b) ANOVA in nursing research analysis
 - c) Chi- square test application in nursing research
 - d) Merits and demerits of mean.
 - e) Rank order correlation
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First M.Sc. Nursing, Summer-2014 Examination
NURSING RESEARCH AND STATISTICS - IV

Total Duration : 3 Hours

Total Marks : 75

Section-B and Section-C

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- 7) Use a common answerbook for all sections.

SECTION - I
Research

(50 Marks)

1. Answer the following

(3+4+5=12)

- a) Explain the importance of Research in Nursing. 3
- b) Explain the scientific versus problem solving method. 4
- c) Discuss the importance of evidence based practices in nursing service, education, and administration. 5

2. Answer the Following.

(3+4+5=12)

- a) Define Review of Literature and list the sources of review of literature. 3
- b) Explain purposes of review of literature 4
- c) Discuss the importance of critical analysis of research reports and articles. 5

3. Answer the following.

(2+4+5=11)

- a) Enlist the types of research. 2
- b) Explain the steps of quantitative research design. 4
- c) Explain the steps of developing conceptual framework and its uses in research. 5

4. Brief answer question (**any three** out of five) :

(3x5=15)

- a) Hypothesis
- b) Test retest method
- c) Importance of pilot study
- d) Uses of computer in nursing
- e) Bias

(P.T.O.)



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SECTION - II
Statistics

25 Mark

5. Answer the following

(4+6=10)

- a) Explain the meaning and significance of statistics in nursing research
- b) Discuss the various methods of presentation of data

6. Brief answer question (**any three** out of five) :

(3x5=15)

- a) Chi Square test
- b) Type I and type II error
- c) Measures of central tendency
- d) Co-relation and coefficient.
- e) ANOVA



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First M.Sc. Nursing Examination, Summer 2012
NURSING RESEARCH AND STATISTICS – IV

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3) **All questions are compulsory.**
4) The number to the **right** indicates full marks.
5) Draw diagrams **wherever necessary**.

SECTION – I
(Nursing Research)

- (3+4+5=12)
1. a) Differentiate between quantitative and qualitative research. 3
b) Discuss the importance of clinical researches in nursing. 4
c) Discuss about the importance of nursing theories in formulation of concepted frame work with any one example. 5
(3+4+5=12)
2. a) List the principles of ethics involved in nursing research. 3
b) Discuss the types of tests of reliability. 4
c) Discuss on types of hypotheses with one example each. 5
(2+4+5=11)
3. a) Define target and accessible population. 2
b) Discuss on advantages and disadvantages of non probability sampling technique. 4
c) Discuss on merits and demerits of observation as a data collection instrument with examples. 5
4. Write short answers (**any three out of five**) : (3×5=15)
a) Rating scales
b) Steps of publishing a research article
c) Steps of critiquing an article
d) Purposes of review of literature
e) Steps of quantitative research.

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SECTION – II
(Statistics)



(4+6=10)

5. Write long answers :

- a) Differentiate between descriptive and inferential statistics. 4
- b) Discuss the importance of parametric tests and the criteria of application of parametric tests. 6

(3×5=15)

6. Write short answers (**any three** out of five) :

- a) Arithmetic mean
 - b) Paired 't' test
 - c) Correlation and coefficient tests
 - d) Types and graphs in data presentation
 - e) Standard deviation.
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First M.Sc. Nursing Examination, May/June 2011
NURSING RESEARCH AND STATISTICS-IV

Duration: 3 Hours

Total Marks: 75

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 - 4) The number to the **right** indicates full marks.
 - 5) Draw diagrams **wherever necessary**.

SECTION-I

(Nursing Research)

(Marks 50)

Long Answer :

- | | |
|----------------------------------------------------------------------------|----|
| 1. a) Define the purpose of Research. | 12 |
| b) Discuss the common resources for literature review in Nursing Research. | 3 |
| c) Describe any two types of sampling for qualitative research. | 4 |
| | 5 |

Long Answer :

- | | |
|------------------------------------------------------------------------------------------|----|
| 2. a) Enumerate the steps in developing a data collection plan for quantitative studies. | 12 |
| b) Explain methods of control in subject characteristics. | 3 |
| c) Briefly discuss phenomenology as a research tradition. | 4 |
| | 5 |

Long Answer :

- | | |
|---------------------------------------------------------------------------------------------------|----|
| 3. a) What are the purposes of data collection ? | 11 |
| b) Describe briefly the different dimensions of research critique. | 2 |
| c) What are the criteria for accessing implementation potential of research in nursing practice ? | 4 |
| | 5 |

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Short answers :

15

4. Write short answers on **any three (3)** :

(3×5=15)

- a) Hypothesis and Assumption
- b) Review of Literature
- c) Schematic and statistical models
- d) Likert's scales in collecting self report data
- e) Non-random sampling schemes.

SECTION – II

(Statistics)

(Marks 25)

Long Answer :

10

5. a) Define data. What are two types of data ? Explain various methods of presentation of data.

4

b) Write various uses of computers in medicine.

6

Short answers :

15

6. Write short answers on **any three** :

(3×5=15)

- a) Student's t-test
- b) Measures of variation
- c) Properties of Normal Distribution with diagram
- d) Standard error of sample mean and proportion
- e) Uses of Vital Statistics.



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First M.Sc. Nursing Examination, Winter 2011
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5) *Draw diagrams wherever necessary.*

SECTION - I
(Nursing Research)

(3+4+5=12)

1. a) Define the sampling. 3
b) Explain the importance and uses of conclusions in the data analysis. 4
c) Describe types of sampling and the factors influencing sampling. 5
(3+4+5=12)
2. a) Define validity and reliability. 3
b) Explain the role of probability in nursing research. 4
c) Describe the importance of variables in research problem. 5
(2+4+5=11)
3. a) What are the concepts of data collection ? 2
b) Explain the importance of review of literature in research. 4
c) Describe the overview of research process. 5
4. Write short answers (**any three** out of five) : (3×5=15)
 - a) Scope of nursing research
 - b) Purpose of theories in research
 - c) Non-random sampling
 - d) Historical research
 - e) Steps in reviewing literature.

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SECTION - II
(Statistics)

(4+6=10)

5. Write long answers :

- a) Explain the types and levels of data and their measurements. 4
- b) Explain measures of central tendency. 6

(3+5=15)

6. Write short answers (any three out of five) :

- a) Simple linear regression analysis
 - b) Scatter diagram method
 - c) Cumulative distribution
 - d) Quartile deviation
 - e) Sampling error.
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First M.Sc. Nursing Examination, May/June 2010
NURSING RESEARCH AND STATISTICS – IV

Duration : 3 Hours

Total Marks : 75

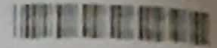
- Instructions:** 1) Use blue/black ball point pen only.
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3) All questions are compulsory.
4) The number to the right indicates full marks.
5) Draw diagrams wherever necessary.

SECTION – I

(Marks - 50)

1. a) List the importance of nursing research. 3
b) Discuss briefly about the current state of nursing research in India. 4
c) Discuss briefly the ethics of nursing research in India. 5
2. a) List the purposes of review of literature. 3
b) Discuss the common types of information used as review of literature in a post graduate research study in nursing. 4
c) Discuss briefly the steps of writing the review of literature for a post graduate research study. 5
3. a) Define research design. 2
b) Differentiate between quantitative and qualitative research approaches. 4
c) Explain briefly the merits and demerits of both quantitative and qualitative approaches. 5
4. Write short answer (any three) : (3×5=15)
 - a) Validity of Instrumentation
 - b) Conceptual frame work
 - c) Importance of pilot study
 - d) Advantages and disadvantages of participatory observation technique.
 - e) Random Sampling.

P.T.O.



SECTION - II

(Marks-25)

5. a) Discuss briefly about inferential statistics. 4
- b) Explain briefly about the statistical methods to test the reliability of an instrument. 6
6. Write short answer (any three) : (3×5=15)
- a) Differentiate between para metric and non parametric tests
- b) Standard deviation
- c) Normal Probability curve
- d) Types of correlations
- e) Linear Regression.

54008

First M.Sc. Nursing Examination, November/December 2010
NURSING RESEARCH AND STATISTICS - IV

Duration: 3 Hours

Total Marks: 75

- Instructions :**
- 1) Use **blue/black** ball point pen only.
 - 2) Do not write anything on the **blank portion of the question paper**. If written anything, such type of act will be considered as an attempt to resort to unfair means.
 - 3) All questions are **compulsory**.
 - 4) The number to the **right** indicates **full marks**.
 - 5) Draw diagrams **wherever necessary**.

SECTION - I

(Marks 50)

(Nursing Research)

1. Write Long Answer :

- | | |
|--------------------------------------------------------|-------|
| a) What are the purposes of nursing research ? | 3 |
| b) Explain the sources of nursing research problems. | 4 |
| c) Briefly discuss the steps in quantitative research. | 5 |
| | <hr/> |
| | 12 |

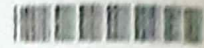
2. Write Long Answer :

- | | |
|-------------------------------------------------|-------|
| a) Enumerate the experimental research designs. | 3 |
| b) Discuss explanatory and descriptive studies. | 4 |
| c) Discuss the threats to internal validity. | 5 |
| | <hr/> |
| | 12 |

3. Write Long Answer :

- | | |
|-----------------------------------------------------------------------|-------|
| a) Define populations. | 2 |
| b) Discuss briefly probability sampling methods. | 4 |
| c) Explain the criteria for selection of data collection instruments. | 5 |
| | <hr/> |
| | 11 |

P.T.O.



4. Write short answers (any three) :

(3×5=15)

- a) Attitude scales.
- b) Barriers to nursing research utilization.
- c) Classification of hypotheses.
- d) Purposes of review of literature.
- e) Ethical principles in nursing research.

SECTION – II

(Marks 25)

(Statistics)

5. Write Long Answer :

- a) Discuss descriptive statistics.
- b) Explain statistical tests used in nursing research.

4

6

10

6. Write short answers (any three) :

(3×5=15)

- a) Measures of central tendency.
- b) Levels of significance.
- c) Purposes of inferential statistics.
- d) Measures of validity.
- e) Applications of normal curves.