

SHARAYU-IV: SUMMER-2015 (2007 Course)
SUBJECT: NURSING RESEARCH AND STATISTICS

Day: Tuesday
Date: 28-04-2015

Time: 9:00 A.M. To 12:00 Noon
Max. Marks: 75

N.B:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Each section should be written in **SEPARATE** answer books.
- 4) Draw neat and labeled diagrams **WHEREVER** necessary.

SECTION-B

Q.2 A) Answer **ANY TWO** of the following:

- i) Define Nursing Research? (02)
- ii) Enlist down the importance of research in Nursing? (03)
- iii) Discuss the steps of research process? (05)
- B)** i) Define Research design? (02)
- ii) List down the points to be remembered while selecting research design. (03)
- iii) Describe the quasi experimental design? (05)
- C)** i) Discuss non probability Sampling Technique? (05)
- ii) Enlist down the characteristics of a good sample? (05)

Q.4 Write short notes on **ANY FOUR** of the following: (20)

- a) Uses of Review of Literature
- b) Hypothesis
- c) Benefits of dissemination of research findings
- d) Characteristics of experimental design
- e) Points to be remember while designing questionnaire
- f) Aspects of reliability test in research

SECTION-C

- Q.5** a) State the meaning of Normal Probability curve. (02)
- b) Write properties of Normal Probability curve. (03)
- c) Write a note on standard Normal curve with diagram. (05)
- Q.6** a) Calculate mean, medium, mode for following data. (10)

8, 12, 16, 8, 6, 6, 6, 10, 10, 10

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Day: Thursday
Date: 02.05-2013

Time: —
Max. Marks: 15

N.B.:

- 1) Multiple choice questions. Select the correct answer from among the alternative and place a tick ✓ mark against the correct answer.

Seat no: _____

Marks obtained _____

Jr. Supervisor's signature: _____

Signature of the examiner: _____

SECTION - A

Q.1 MCQ:

- 1) The restrictions that the nurse researcher places on the study before gathering data are called:
- a) ☐ Assumptions
 - b) ☒ Statistics
 - c) ☐ Delimitations
 - d) ☐ Limitations
- 2) The tentative prediction or explanation of the relationship between two variables is:
- a) ☐ Sample
 - b) ☒ Assumption
 - c) ☐ Prediction
 - d) ☒ Hypothesis
- 3) A questionnaire, that allows the respondent complete freedom is:
- a) ☒ Open ended
 - b) ☐ Closed ended
 - c) ☐ Direct
 - d) ☐ Indirect
- 4) The main purpose of literature review is to:
- a) ☒ Determine the existing knowledge on the topic
 - b) ☐ Decide the sample size
 - c) ☐ Prevent duplication of research
 - d) ☐ Identify the research design
- 5) The variable under observation by the nurse researcher is known as:
- a) ☐ The manipulated variable
 - b) ☐ The dependant variable
 - c) ☐ The experimental variable
 - d) ☐ None of the above

P.T.O.

- 6) The most powerful research method used for establishing causal relationship is the:
- a) ☐ Causal comparative method
 - b) ☐ Experimental method
 - c) ☐ Correlational method
 - d) ☐ Descriptive method
- 7) Co-efficient of stability is found out to test:
- a) ☐ Reliability
 - b) ☐ Content validity
 - c) ☐ Concurrent validity
 - d) ☐ Construct validity
- 8) A subset of the population which is selected to represent the population is called:
- a) ☐ Study population
 - b) ☐ Sample population
 - c) ☐ Elements
 - d) ☐ Sample
- 9) A study that is basically an indepth survey utilizing one subject in known as:
- a) ☐ Longitudinal study
 - b) ☐ Cross sectional study
 - c) ☐ Case study
 - d) ☐ Correlational study
- 10) Research which is conducted to find solutions to an immediate practical problem is known as:
- a) ☐ Basic Research
 - b) ☐ Applied Research
 - c) ☐ Pure Research
 - d) ☐ Scientific Research
- 11) Most frequently occurring member in a set of values is called
- a) ☐ Median
 - b) ☐ Mean
 - c) ☐ Range
 - d) ☐ ~~Mode~~

12) Which of the following is the formula for Range?

- a) ☐ $H + L$
- b) ☐ $H \times L$
- c) ☐ $L - 4$
- d) ☐ $H - L$

13) Which of the following represents the 50th percentile or the middle point in a set of numbers arranged in order of magnitude?

- a) ☐ Mode
- b) ☐ Median
- c) ☐ Mean
- d) ☐ Variance

14) The median is

- a) ☐ Middle point
- b) ☐ Highest number
- c) ☐ Average
- d) ☐ Affected by extreme score

15) Interval between highest and lowest score is known as _____

- a) ☐ Mode
- b) ☐ Variance
- c) ☐ Range
- d) ☐ Median

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SHARAYU-IV (2007 COURSE): APRIL/MAY- 2013
 SUBJECT: NURSING RESEARCH AND STATISTICS

Day: Thursday
 Date: 02.05-2013

Time: —
 Max. Marks: 15

N.B.:

- 1) Multiple choice questions. Select the correct answer from among the alternative and place a tick ✓ mark against the correct answer.

Seat no: _____

Marks obtained _____

Jr. Supervisor's signature: _____

Signature of the examiner: _____

SECTION - A

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P.T.O.

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- a) Mode
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 - c) Mean
 - d) Variance
- 14) The median is
- a) Middle point
 - b) Highest number
 - c) Average
 - d) Affected by extreme score
- 15) Interval between highest and lowest score is known as _____
- a) Mode
 - b) Variance
 - c) Range
 - d) Median

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SHARAYU-IV (2007 COURSE): APRIL/MAY, 2013
SUBJECT: NURSING RESEARCH AND STATISTICS

Day: Thursday
Date: 02-5-2013

Time: 9:00 AM TO 12:00 PM
Max. Marks: 60

N.B.:

- 1) Answer ANY FOUR questions.
- 2) Answer to both sections should be written in SEPERATE answer sheets.
- 3) Figures to the right indicate FULL marks.

SECTION - B

- Q.1 a) Define Nursing Research. (02)
b) Discuss in brief the steps of Research process. (08)
- Q.2 a) Explain the characteristics of a good questionnaire. (05)
b) Discuss the importance of a pilot study in a research process. (05)
- Q.3 Write short notes on ANY FOUR of the following: (20)
a) Types of sampling
b) Steps in data analysis
c) Characteristics of research tool
d) Sources of literature for nursing research
e) Criteria for problem selection

SECTION - C

- Q.4 Write short notes on ANY THREE of the following: (12)
a) Measures of Central Tendency
b) Charts and Diagrams
c) Data
d) Characteristics of Normal Distribution Curve
- Q.5 Compute median of the following data: (04)
69, 72, 74, 77, 63, 58, 53, 82, 89, 71
- Q.6 Prepare multiple bar diagram from the following data: (04)

Years	1st Class	2nd Class	Failed
2006	10	30	5
2007	30	50	20
2008	35	60	25

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SHARAYU - IV: SUMMER - 2015 (2007 Course)
SUBJECT: NURSING RESEARCH & STATISTICS

Day : Tuesday
Date : 28-04-2015

Time — :
Max. Marks : 15

N.B.

- 1) Put a (✓) mark in the appropriate box below the question number once only.
- 2) Use blue/black ball point pen only.
- 3) Each question carries ONE mark.
- 4) Students will not be allotted mark if he/she overwrites/strikes or puts white ink on the cross once marked.

Seat No. _____

Total Marks Obtained _____

Jr. Supervisor's Signature _____

Examiners Signature _____

SECTION - A

1. The variable which is influenced by the intervention of the researcher is called as
 - a) ☐ independent
 - b) ☐ dependent
 - c) ☐ discrete
 - d) ☐ extraneous
2. Randomization is useful to eliminate
 - a) ☐ observer bias
 - b) ☐ confounding factors
 - c) ☐ patient bias
 - d) ☐ Sampling bias
3. The entire group of people in which the researcher is interested is called as
 - a) ☐ population
 - b) ☐ experiment group
 - c) ☐ sample
 - d) ☐ controls
4. Which of the following best describes quantitative research?
 - a) ☐ the collection of nonnumeric data
 - b) ☐ an attempt to confirm the researcher's hypothesis
 - c) ☐ research that is exploratory
 - d) ☐ research that attempts to generate a new theory

P.T.O.

5. The principles of ethics in nursing research include
- a) ☐ beneficence
 - b) ☐ respect for human dignity
 - c) ☐ justice
 - d) ☐ all of the above
6. Reliability is most simply known as which of the following?
- a) ☐ consistency or stability
 - b) ☐ appropriateness of interpretations on the basis of test scores
 - c) ☐ ways in which people are the same
 - d) ☐ a rank order of participants on some characteristic
7. Which of the following statements accurately describes test-retest reliability?
- a) ☐ measures of consistency of test scores over time
 - b) ☐ measure of consistency of scores obtained from two equivalent halves of the same test
 - c) ☐ measure of consistency with which a test measures a single construct or concept
 - d) ☐ measure to degree of agreement between two or more scores, judges, or raters
8. Which of these is not a technique of data collection?
- a) ☐ questionnaires
 - b) ☐ interviews
 - c) ☐ experiments
 - d) ☐ observations
9. True about simple random sampling
- a) ☐ techniques provide least number of possible samples
 - b) ☐ every fixed unit is taken for selection
 - c) ☐ all units have equal chance to be selected
 - d) ☐ only selected units have right to be selected
10. Formula for calculation of simple arithmetic mean for individual observations is
- a) ☐ $\bar{X} = \frac{\sum X}{N}$
 - b) ☐ $\bar{X} = \frac{f}{n}$
 - c) ☐ $\bar{X} = \frac{fn}{N}$
 - d) ☐ $\bar{X} = \frac{\sum X}{f}$

If probability of being Rh negative is $1/10$ then of Rh positive will be

- a) ☐ $1/10$
- b) ☐ $9/10$
- c) ☐ $1/1$
- d) ☐ 1

Significant 'P' value is

- a) ☐ 0.02
- b) ☐ 0.01
- c) ☐ 0.1
- d) ☐ 0.005

Qualitative research methods are used to collect and analyse data that cannot be represented by

- a) ☐ number
- b) ☐ concepts
- c) ☐ terms
- d) ☐ item

Standard deviation is denoted with a symbol of

- a) ☐ \bar{X}
- b) ☐ σ
- c) ☐ π
- d) ☐ SE

Which of the following is NOT a discrete variable

- a) ☐ skin cancer
- b) ☐ blood pressure
- c) ☐ weight
- d) ☐ boys in the class

* * *