

NURSING RESEARCH AND STATISTICS

QP CODE: 1773

QUESTION BANK

UNIT –I - RESEARCH AND RESEARCH PROCESS

SHORT ESSAY

1. Enumerate the steps of Quantitative Research Process.
2. Explain the process of qualitative research.
3. Explain the need for research in Nursing.
4. Describe the steps in scientific method
5. Explain the characteristics of good Nursing Research.
6. Define Nursing Research. List any 6 Purposes of Nursing Research.
7. Explain the conceptual phase of the Research Process.
8. What are the characteristics of a good research?
9. Compare and Contrast Problem solving method and Research.
10. Compare and Contrast Scientific Method with Nursing Research.
11. Briefly describe the steps of Nursing Research.
12. List and describe any 5 purposes of Nursing Research.
13. Explain the steps of Scientific Method.

SHORT ANSWERS

1. Define research.
2. Define nursing research.
3. State any four needs of nursing research.
4. State any four characteristics of good research.
5. Define the Research Process
6. Define Problem-solving Process.
7. Mention two activities required in the last step of nursing research.
8. What are the first 2 steps of the nursing research?
9. Define research abstract.
10. List any 2 criteria for good research.

NURSING RESEARCH AND STATISTICS

QP CODE: 1773

QUESTION BANK

Unit II – RESEARCH PROBLEM

SHORT ESSAY

1. Describe the criteria of a good research problem.
2. Explain the classification of hypothesis.
3. Describe the steps in developing and refining research problem.
3. What are the sources of research problem in Nursing?
4. Explain the types of Variables.
5. Explain the characteristics of testable Hypothesis
6. Explain the target and accessible population in research study.
7. List and explain any 5 characteristics of a good research problem statement.
8. Explain any 5 sources from which problems for Nursing Research can be identified.
9. Explain the characteristics of good research objectives.
10. List and describe the aspects involved in the statement of the problem.
11. Identify a problem faced in the ward and prepare a good research problem statement.
12. What are the problems faced by a beginner nurse researcher while identifying a research problem?
13. “A Research Problem well stated is Research half done” – Explain in detail.
14. State a Research Problem having an independent and dependent variable and identify the independent and dependent variables.
15. “A study to evaluate the effectiveness of Music Therapy on relieving Anxiety among patients posted for CABG”. Formulate the objectives for the above problem statement.
16. State any 2 Nursing research problem statements and enumerate the appropriate objectives for the mentioned statements.

UNIT III - REVIEW OF LITERATURE

SHORT ESSAY

1. Describe the sources of literature review.
2. Explain the process of preparing review of literature.
3. Write the purposes of review of literature.

NURSING RESEARCH AND STATISTICS

QP CODE: 1773

QUESTION BANK

4. Write important electronic and print database used by Researchers for review of Literature.
5. Explain any 5 sources of Knowledge in Nursing Research.

UNIT IV - RESEARCH APPROACHES AND DESIGN

LONG ESSAY

1. What are the characteristics of Experimental Research Design. Explain the quasi experimental research design.
2. Define Research Design. Describe about the types of Quantitative Research Design.
3. Write the features and characteristics of Qualitative Research Design.
4. Write the need and characteristics of Research Design. Explain the principles of Experimental Research Design.
5. Define Research approach. Explain historical approach in detail.
6. Define Experimental Study. Explain the criteria of a true experiment.
7. Define Phenomenology. What are the methods of Data Collection in grounded theory?
8. Describe the features essential to experimental design and explain the types of true experimental designs
9. List the types of Non experimental research designs and explain any two in detail.
10. Define qualitative research. Explain the role of survey approach in nursing research.
11. Describe the ethnographic research and its uses in nursing research.

UNIT V - SAMPLING AND DATA COLLECTION

LONG ESSAY

1. Define data collection. Discuss the different methods of data collection.
1. Define sampling .List the types of sampling technique.Explain about probability sampling technique.

NURSING RESEARCH AND STATISTICS

QP CODE: 1773

QUESTION BANK

2. Explain the need for a sample. Explain the types of non-probability sampling technique in detail.
3. Define data. List the methods of data collection .Describe structured self report method.
4. Define Observation. List the methods of Data Collection. Describe the structured Observation method.
5. Define data. List the methods of data collection. Describe the unstructured observation method.
6. What is research instrument? List the types of research instruments. Explain interview schedule.
7. What is data collection? Describe data collection procedure in quantitative research.
8. Define Validity. Explain the types of Validity of a data collection instrument with examples.
9. Define Reliability. Explain the types with suitable examples.
10. What are the characteristics of a good Sample? Explain the factors influencing Sampling.
11. How will you prepare a questionnaire for Data Collection. Explain various techniques of administration of Questionnaire.
12. Define Observation. What are the types of Observation and explain it in detail?
13. What are the types of Research interviews used for Data Collection? How will you plan and conduct a structured interview?
14. Define Questionnaire. Explain the types of closed ended questions.
15. Define data collection. Discuss the different methods of data collection.
16. Define sampling process. Highlight on the different techniques of sampling
17. Define pilot study. Discuss in detail the steps involved in pilot study.
18. Define questioning. Describe the different types of questions in terms of advantages and disadvantages.
19. Define Sampling. Explain the advantages and Disadvantages of Sampling.

SHORT ANSWRES

1. Define data
2. Define primary data
3. Define secondary data
4. Define sampling
5. Define questionnaire
6. Define measurement
7. Define pilot study
8. Define validity
9. Define reliability

NURSING RESEARCH AND STATISTICS

QP CODE: 1773

QUESTION BANK

10. List the types of questions
11. List the types of interview methods
12. Define Likert Scale.
13. Define Q sort.
14. Define Vignette.
15. Define Unstructured interview.
16. Define Structured interview.
17. List four advantages of Self Administered Questionnaire.
18. Define Criterion Validity.
19. Define Construct Validity.
20. Differentiate between Continuous and Discrete Data
21. Define Mean of a Grouped Data
22. Difference between convenient and quota sampling.
23. Define non probability sampling.
24. List any 2 characteristics of a good presentation of data.
25. What is sampling frame?
26. What is population?
27. List any 2 probability sampling methods.
28. Difference between target and accessible population.
29. Difference between population and sample.
30. Difference between sampling and samples.
31. Mention any 2 disadvantages of non random sampling.
32. List any 2 non probability sampling methods.
33. Mention any 2 advantages of non random sampling.
34. What is the multiplication law in probability?
35. Define probability sampling.
36. Mention any 2 disadvantages of random sampling.
37. Mention the addition law of probability.
38. List the 2 types of sampling.
39. Mention any 2 advantages of random sampling.

NURSING RESEARCH AND STATISTICS

QP CODE: 1773

QUESTION BANK

40. Define snowball method of sampling.

UNIT VI - ANALYSIS OF DATA

SHORT ESSAY

1. Explain features of Tabulation
2. Explain the methods of presentation of the data
3. Explain interpretation of the data
4. Describe the types of Bar Graph.
5. Explain the classification of Data.
6. List any 5 Principles to be followed while tabulating data collected.
7. Explain the organization and preparation of raw data for data analysis.
8. Explain the process of compiling data.
9. Describe the methods of presenting the compiled data.
10. Explain the aspects involved in data interpretation.
11. Describe the steps involved in data analysis.

SHORT ANSWERS

1. List any four types of tables
2. State any four principles of tabulation
- 3 Define Footnotes
4. Define Summarization
5. Write steps of preparing Pie diagram.
6. List the steps in analysis of Data
7. Define inclusive method of Classification.
8. Define exclusive method of Classification.
9. Define Cumulative frequency.
10. List any two criteria of a good tabulation.

NURSING RESEARCH AND STATISTICS

QP CODE: 1773

QUESTION BANK

11. Define interpretation of data.
12. Define classification of data.

UNIT VII - INTRODUCTION TO STATISTICS

SHORT ESSAYS

1. Describe about scales of measurement
2. Describe measures of Central tendency
3. Explain about co-efficient of correlation
4. Describe normal probability curve
5. Explain test of significance
6. Explain statistical packages and its applications in nursing
7. Draw Histogram
8. Write features of Tabulation with example
9. Duration of hospital stay of five patients was 6,4,2,3 and 5 days. Compute standard deviation
10. Calculate the mean ,median ,mode of these numbers-12,14,21,17,20, 21,23,24,21,26
11. Explain type-I, type II errors
13. Discuss the merits and demerits of the mode.
14. Calculate the mode for the following data: 30,33,34,40,39,28,30,28,26,22,36,30,21,35&30.
15. Prepare a data table and explain its parts.
16. What is the formula used for calculating the mean? What are the merits and demerits of the mean?
17. The length of stay of 10 patients discharged from the same ward is given as ,
7, 3, 3,5,4,6,3,7,6 & 5 days. Compute the Mean and Range for the data given.
18. Briefly describe the statistical packages available.
19. Calculate the median for the following data; 220,190,380,160,240,210 & 200.
20. What is the formula used to calculate the Range, and standard deviation?
21. The age in years of patients attending the ENT OPD is given below:
36,33,34,40,39,28,30,28,26,22,20,24,21,35&31. Compute the frequency distribution table.
22. List the levels of measurements and mention their characteristics.
23. Calculate the arithmetic mean for the following data;

NURSING RESEARCH AND STATISTICS

QP CODE: 1773

QUESTION BANK

Age in years	Number of Patients
24	30
36	23
48	40
56	45

24. List any 2 measure of central tendency.
25. Explain the Characteristics of Normal Probability Curve.
26. What is a pie chart and describe its preparation.
27. Explain the steps used in construction of a Pie Diagram.
28. Draw a bar diagram for the following data:

Types of Occupation	Number of Patients
Unskilled Labourer	30
Skilled Labourer	23
Govt. Employees	40
House Makers	45

29. Describe the steps involved in construction of a bar Diagram.
30. What are the parts of a data presentation table. Comment on the following table with regard to the same.

Types of Occupation	Number of Patients
Unskilled Laborer	30
Skilled Laborer	23
Govt. Employees	40
House Makers	45

31. Identify the average of the marks given below: 36,33,34,40,39,28,30,28,26,22,20,24,21,35&31.
32. Prepare a histogram for the following data:

Marks	Number of students
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NURSING RESEARCH AND STATISTICS

QP CODE: 1773

QUESTION BANK

0-20	12
20-40	18
40-60	30
60-80	28
80-100	12

33. List and describe the types of tables commonly used for data presentation.

34. Identify the Range of the Data given below: 36,33,34,40,39,28,30,28,26,22,20,24,21,35&31.

35. Prepare a frequency polygon for the following data:

Age	Number of Patients
0-20	12
20-40	18
40-60	30
60-80	28
80-100	12

SHORT ANSWERS

1. State any four uses of statistics in health field
2. List the levels of measurements
3. Define Mean
4. Define Mode
5. Define Standard deviation
6. Define Variance
7. Define positive correlation
8. Define negative correlation
9. Write steps of preparing pie diagram
10. Draw a neat line diagram
11. Define Karl Pearsons correlation co-efficient

NURSING RESEARCH AND STATISTICS

QP CODE: 1773

QUESTION BANK

12. Define nominal scale
13. Define ordinal scale
14. Write test of significance
15. Define mode.
16. What is type 2 error?
17. List any 2 measures of dispersion.
18. What is type 1 error?
19. What is a foot note?
20. Define dispersion
21. Define presentation of data.
22. Define the central tendency.
23. Define correlation.
24. Define standard deviation.
25. Define range.
26. Define compilation of data.
27. Define statistics.
28. Define median.

UNIT VIII - COMMUNICATION AND UTILIZATION OF RESEARCH

SHORT ESSAY

1. Explain about verbal research report
2. Describe about writing a research report
3. Explain writing a scientific article
4. Explain critique of quantitative published research article
5. Explain critique of qualitative published research article
6. Explain Utilization of research findings
7. Explain the methods of communicating Research Report.
8. How will you improve research utilization in one organization.
9. Describe the guidelines for writing a research report.
10. How can research findings be utilized?

NURSING RESEARCH AND STATISTICS

QP CODE: 1773

QUESTION BANK

11. What are the characteristics of good research report?
12. What are the methods through which research report can be communicated?
13. Develop a Critiquing table for a research report.
14. List the Advantages and disadvantages of written communication of research report.
15. List the Advantages and disadvantages of oral reports.
16. Explain the aspects involved in data summarization.
17. Compare and contrast oral reports with written reports.
18. Describe the IMRAD format for written reports.
19. Prepare a format for submission of research report.

SHORT ANSWERS

1. Define Research report
2. Defineverbal report
3. List the methods of communicating research report
4. Define abstract
5. List the types of research report
6. Define research utilization
7. Define research proposal
8. Mention any 2 characteristics of a good research report.
9. List any 2 aspects to be included in the summary.
10. Mention any 2 criteria for critiquing a research report.
11. List any 2 criteria of a good summarization.
12. What format is used for writing a research report?
13. Compare verbal with written reports.
14. Define summarization of data.
15. What are written reports?
16. What are verbal reports?
17. Mention 2 methods by which reports are presented.
18. Mention 2 methods by which reports are presented.

NURSING RESEARCH AND STATISTICS

QP CODE: 1773

QUESTION BANK
