SS/MSN-I/NRS/02-22

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(February)

NURSING RESEARCH AND STATISTICS

Full Marks: 75

Time: 3 Hours

The figures in the margin indicate full marks for the questions

Answer **all** questions

FIRST HALF

1. Define nursing research. List any six characteristics of nursing research. Explain purposes, steps and barriers of evidence based practices. 1+3+8=12

2. Describe description type of research. Explain how it is different from experimental research by giving examples. 8+4=12

3. Write the purposes of using sampling technique in research. Discuss random sampling methods and type I & type II errors in sampling. 4+8=12

OR

What do you understand by the term sampling? Differentiate between probability and non-probability sampling. Explain systematic random sampling. 2+4+6=12

4. Write the characteristics of research instrument. Explain in details the source of data collection. Discuss questionnaire as an instrument of data collection.

3+5+6=14

OR

Write short answer of the following: 3.5+3.5+3.5+3.5=14

a) Research proposal.

b) Validity of a research tool.

c) Annotated bibliography.

d) Characteristics of a good sample.

SECOND HALF

5. Define arithmetic mean. Explain merits and demerits of arithmetic mean. Calculate mean from the following continuous frequency table: 1+3+2=6

C.I of age	No of people
15-20	15
20-25	20
25-30	40
30-35	60

6. What do you mean by measures of dispersion? List down various measures of dispersion. Calculate SD from the following discrete data: $\quad$ 1+2+4=7

X= 240,245,255,257,260,263,272,277,288,290

7. Write short notes on the following : $\quad$ 3+3+3+3=12

    a) Properties of normal probability curve.

    b) Types of correlation co-efficient.

    c) Level of significance.

    d) Non parametric test.

    e) T-test.

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