

**First Year B.Sc Dialysis Technology Regular/Supplementary
Examinations February 2024**

Basics of Biostatistics and Principles of Nursing

Time: 3 Hours

Total Marks: 100

- *Answer all questions to the point neatly and legibly* • *Do not leave any blank pages between answers* • *Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together* • *Leave sufficient space between answers*
- *Draw table/diagrams/flow charts wherever necessary*

QP CODE: 107023

Basics of Biostatistics

Max. Marks: 50

Essay

(10)

1. What is sampling. What are the criteria for a good sample. Describe various methods of sampling in detail.

Short Notes

(10x4=40)

2. Variance and Standard Deviation.
3. Standard normal Curve.
4. Write a short note on Ogive (Cumulative Frequency Curve) with suitable diagrams.
5. The weight of 10 females are 45,56,43,45,59,61,60,45,45,65 kg
Calculate mean, mode, median and standard deviation.
6. Write briefly on parameter and estimate.
7. Applications of Biostatistics.
8. Differentiate between skewness and kurtosis.
9. General Principles which should be borne in mind in designing tables for presenting data.
10. Incidence and Prevalence.
11. Midyear population of a town was 550000 during the year 2020. In the same year there were 10000 live births and 2000 deaths. Total maternal deaths occurred were 5 and there were 30 infant deaths and 75 still births. Calculate Crude birth rate and all possible mortality rates from the given data.

QP CODE: 106023

Principles of Nursing

Max. Marks: 50

Essay

(10)

1. What are the types of peritoneal catheters used for CAPD exchanges. Discuss the advantages of doing CAPD
(5+5)

Short Notes

(10x4=40)

2. Principles of bed making
3. Clean intermittent self-catheterization
4. Types of intravenous cannulae
5. Types of vascular accesses created for haemodialysis
6. Guidelines for removing staples
7. Respiratory system complications and its prevention in bed ridden patients
8. Ethical and legal considerations of documentation
9. Collection of urine for culture
10. Sites of giving subcutaneous injections
11. Discuss on personal protection safety rules to be followed in a laboratory
