

**First Year B.Sc Dialysis Technology Regular/Supplementary  
Examinations March 2022  
Principles of Nursing and Basics of Biostatistics**

**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: 106023**

**Principles of Nursing**

**Max. Marks: 50**

**Essay**

**(10)**

1. Indication of bladder catheterization. Types of urinary catheters. Care of a patient on indwelling urinary catheter. (3+3+4)

**Short Notes**

**(10x4=40)**

2. Sites of intramuscular injections
3. Care of peritoneal catheter insertion site
4. Complications in bedridden patients
5. Guidelines in documentation
6. Care of patient with AV fistula
7. 24-hour urine collection
8. Care of patient on CAPD
9. Suture removal
10. Types of beds
11. Collection of blood specimen for culture

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**QP CODE: 107023**

**Basics of Biostatistics**

**Max. Marks: 50**

**Essay**

**(10)**

1. Define sampling and explain the types of sampling methods in detail with suitable examples.

**Short Notes**

**(10x4=40)**

2. Enumerate the characteristics of normal curve with the help of a diagram
3. Differentiate between parameters and estimates
4. Standard error
5. Explain the different types of presentation of data.
6. Describe measures of mortality with examples.
7. Uses and applications of Biostatistics.
8. Descriptive statistics
9. Describe types of variables with examples.
10. Calculate the measures of central tendency and measures of dispersion in the following data set:  
91, 93, 93, 108, 115, 135, 86, 124, 110, 110, 110, 104, 113, 107, 140  
What percentage of observation (approximate) in a normal distribution lies within Mean  $\pm$  2 Standard deviation.
11. The estimated mid-year population for place A during the year 2019 was 12000. The total deaths during the year were 80. During the same year there was an outbreak of hepatitis A. Among 30 cases of hepatitis A diagnosed, 6 deaths occurred. Calculate the possible measures of morbidity and mortality.

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