

**First Year B.Sc Dialysis Technology Regular/Supplementary  
Examinations February 2023  
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. What are the different sites for administering intramuscular injections. Explain how will you locate each site. What factors will you consider in selecting the site for intramuscular injections. Describe the steps of administering intramuscular injections.

(1+2+2+5)

**(10x4=40)**

**Short Notes**

2. Complications of bed ridden patients.
3. Care of patients with indwelling urinary catheter.
4. Principles involved in bed making.
5. Criteria for legally defensible charting.
6. Steps involved in suture removal.
7. Care of patients with peritoneal catheter.
8. Mention the sample type, volume required, type of container and normal values for blood glucose, blood urea nitrogen, creatinine and calcium.
9. Health education for patients on continuous ambulatory peritoneal dialysis.
10. Types of wound.
11. Precautions to be followed in the laboratories.

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**QP CODE: 107023**

**Basics of Biostatistics**

**Max. Marks: 50**

**Essay**

**(10)**

1. What is a random sample. Describe various sampling procedures in detail.

**Short Notes**

**(10x4=40)**

2. What is biostatistics. Mention its uses and applications
3. What are the graphics and pictorial diagrams used in the presentation of statistical data.
4. Explain briefly the measures of central tendency.
5. Briefly describe standard normal curve with a diagram
6. Systolic Blood pressure among 10 individuals are found to be 98,102,104,110,104,126,128,114,118,124 mm of Hg.  
Calculate Mean, Median, Mean deviation and Standard deviation for the given data.
7. Measures of Dispersion.
8. Define a Variable? Mention the type of variables with suitable examples.
9. List out the guidelines for the choice of various measures of central tendency.

10. Describe the mortality rates.

11. The midyear population of an urban area during 2020 was 3.5 lakhs. There were 7700 births and 2100 deaths during the same year. There were 90 deaths of children less than 1 year of age, 10 maternal deaths.  
Calculate crude birth rate, crude death rate, infant mortality rate and maternal mortality rate of the urban area from the above data

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