

**First Year B.Sc Dialysis Technology Supplementary Examinations
September 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. Discuss the types of vascular accesses used in haemodialysis. Prepare health education for patients on different vascular access. (5+5)

Short Notes

(10x4=40)

2. Factors influencing the development of pressure ulcer.
3. Complications of intravenous injection
4. Steps involved in wound dressing
5. Compare and contrast different documentation methods.
6. Responsibilities of health care personnel in specimen collection for various investigations.
7. Types of suture materials.
8. Differences between open bed and occupied bed.
9. Preventive measures of catheter associated infections.
10. Advantages and disadvantages of continuous ambulatory peritoneal dialysis.
11. Infection control measures in the laboratory.

QP CODE: 107023

Basics of Biostatistics

Max. Marks: 50

Essay

(10)

1. Discuss the measures of averages and measures of variation in detail

Short Notes

(10x4=40)

2. What is a random variable. Mention the types of variables with suitable examples.
3. What are the general principles which should be borne in mind in designing tables for presenting statistical data.
4. What is normal distribution. Describe the characteristics of normal distribution.
5. Types of diagrams to present data
6. Explain on fertility rates.
7. Briefly discuss morbidity and mortality indicators
8. Write briefly about systematic sampling procedure and cluster sampling procedure.
9. Differentiate between case fatality rate and Proportional mortality rate. Calculate case fatality rate and proportional mortality rate of coronary heart disease in an Anganwadi from the given data:
The mid-year population of an Anganwadi area was found to be 8700 in 2020. There were 155 cases of diagnosed coronary heart disease patients in the area during 2020. There were 58 deaths in the Anganwadi area of which 23 were due to Coronary heart diseases.
10. Differentiate between skewness and kurtosis
11. What is coefficient of variation? The mean height of boys in a school is 152 cm and standard deviation is 10 cm. Calculate the coefficient of variation.
