

First Year B.Sc Dialysis Technology Supplementary Examinations
June 2025
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*
- *Simple calculator shall only be permitted*

QP CODE: 107023**Basics of Biostatistics****Max. Marks: 50****Essay****(10)**

1. Describe the measures of central tendency and measures of dispersion in detail

Short Notes**(10x4=40)**

2. What is a variable. Briefly explain the types of variables with suitable examples.
3. Describe Bar charts and Pie diagram with suitable diagrams
4. Frequency Distribution Table.
5. Census.
6. Standard Error.
7. Morbidity indicators
8. Differentiate systematic sampling procedure and stratified sampling procedure.
9. Calculate case fatality rate and proportional mortality rate of coronary heart disease in PHC from the given data:

The midyear population of PHC area was found to be 37000 in 2023. There were 400 cases of diagnosed coronary heart disease patients in the area during 2023. There were 100 deaths in the PHC area of which 23 were due to Coronary heart diseases.

10. The estimated midyear population of a district is 2500000. In the same year 4000 live births and 5000 deaths occurred. Among the deaths 10 deaths were infants and 2 deaths were maternal deaths. Calculate Crude Birth Rate and all possible mortality rates.
11. Calculate the weighted mean income of surgeons in a city from the following data. The monthly income of surgeons in government sector is 150000 rupees and the monthly income of surgeons in private sector is 200000 rupees. There are 20 government sector surgeons and 30 private sector surgeons.

QP CODE: 106023**Principles of Nursing****Max. Marks: 50****Essay****(10)**

1. Discuss on CAPD exchanges. What measures will you take to prevent complications associated with CAPD

(4+6)**Short Notes****(10x4=40)**

2. List down the purposes of preparing an occupied bed
3. Appropriate selection and different types of urinary catheters
4. Gluteal sites for intra muscular injections with advantages and disadvantages
5. Purposes of wound dressing
6. Preparing patient for suture removal
7. Integumentary system complications and its prevention in bed ridden patients
8. Explain general guidelines for recording
9. Faecal occult blood testing
10. Management of patients with intravenous cannula
11. Discuss on safe laboratory practices
