

B.Sc. RESPIRATORY THERAPY
FIRST YEAR
PAPER IV – BIO STATISTICS AND PHYSICS

Q.P. Code: 802604

Time: Three Hours

Maximum : 100 Marks

Answer All questions

I. Elaborate on:

(3 x 10 = 30)

1. The researcher wants to know the prevalence and the incidence rate of patients who underwent mechanical ventilation therapy. Write a research protocol and methodology based on this research question.
2. Define data and briefly explain the various methods of presenting data.
3. Which test has been used to find the relationship between the age and respiratory rate among the patients attending in respiratory OP.?

II. Write Notes on:

(8 x 5 = 40)

1. Non Random Sampling.
2. Non probability technique.
3. Non Parametric tests.
4. Difference between the sample mean and the population mean.
5. Explain the sampling technique.
6. Standard error.
7. Confidence Interval.
8. Independent t test.

III. Short Answers on:

(10 x 3 = 30)

1. Critical region.
2. Level of significance.
3. Power of the study.
4. Co variance and Co efficient.
5. Incidence.
6. Risk ratio.
7. Cluster sampling.
8. Minimize the error.
9. Mean, Median, Mode.
10. Mortality rate.
