

BACHELOR IN PROSTHETICS AND ORTHOTICS

THIRD YEAR

PAPER VI – RESEARCH METHODOLOGY / PROJECT DEVELOPMENT

Q.P. Code: 802436

Time: Three Hours

Maximum : 100 Marks

Answer All questions

I. Elaborate on:

(3 x 10 = 30)

1. Elaborate on various research designs applicable in Orthotic/Prosthetic projects?
2. Explain various parametric and non parametric tests.
3. What is Sampling? Enumerate various method of sampling technique.

II. Write notes on:

(8 x 5 = 40)

1. Normal distribution.
2. Cross sectional study.
3. Calculation of Mean for Ungrouped data.
4. Explain in brief Type I and Type II error.
5. Histogram Vs bar diagram.
6. What is hypothesis? Explain null and alternate hypothesis.
7. Case control Study.
8. What are the elements of Informed Consent?

III. Short answers on:

(10 x 3 = 30)

1. Interpretation of correlation coefficient.
2. Cluster sampling.
3. Define confidence interval.
4. What is scatter diagram?
5. What is literature review and why is it necessary?
6. Define randomization.
7. Define Mean, Median and Mode.
8. Prevalence and incidence.
9. What are the contents of research proposal?
10. Disadvantage of cohort study.
