

**SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH**  
**(A DEEMED TO BE UNIVERSITY)**

**Time : 3 Hrs.**

**Pre. Ph.D. May 2019 Examinations**

**[Max. Marks : 100]**

**Paper – I**

**Research Methodology & Biostatistics**

**Q.P Code: A1011**

*Your answers should be specific to the questions asked.*

*Draw neat labelled diagrams wherever necessary.*

**(Each question 10 marks )**

**10 X 10 = 100 Marks**

1. Describe refining research question-SMART- Specific Measurable Attainable. Relevant Time Constraint.
2. Use of Boolean operators. Keywords and filters in search of literature.
3. Describe randomized clinical trials (RCT) and non-randomized clinical trials RCT with a note on their application.
4. Describe the various methods of estimating sample size.
5. Discuss the Institutional Ethics Committee – constitution and use.
6. What are role of conflict interest and acknowledgment in presentation of scientific work.
7. Describe parametric tests and non parametric tests and discuss the differences and role in statistical analysis.
8. Discuss the various methods of writing presentation of data.
9. Describe the bibliography (reference writing styles)
10. Describe the salient features of analytical-case control cohort studies.

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