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

Time : 3 Hrs. **Pre- Ph.D Examination September-2016** **[Max. Marks : 100]**

Paper – I
Research Methodology & Biostatistics
QP Code – 1111

Your answers should be specific to the questions asked.
Draw neat labelled diagrams wherever necessary.

LONG ESSAY **10 X 10 = 100 Marks**

1. Describe the procedure of performing electronic literature search (Pubmed, EMBASE, Indmed , Cochrane)

2. Write a brief note on Pilot study – conduct and utility.

3 Describe different types of sampling procedures.

4 Correlation and regression.

5 Describe the structure of scientific paper, abstract, title, introduction, methods, results, discussion (IMARD) and conclusion.

6 Write brief note on: a) Plagiarism
b) Authorship guidelines.

7 Write brief note on : a) ANOVA
b) Post hoc test

8 Write brief note on: a) Blinding
b) Randomization

9 Write brief note on : a) Systematic review
b) Meta analysis

10 Discuss protocol writing.

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REG. NO: 15PhD2201

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Time : 3 Hrs. **Pre. Ph.D. Examinations September-2016** **[Max. Marks : 100]**

Allied Health Sciences

Paper – II

Area of Specialization

Q.P Code: 5302

Your answers should be specific to the questions asked.
Draw neat labelled diagrams wherever necessary.

LONG ESSAY **10 X 10 = 100 Marks**

1. Discuss the classification of hypertension in pregnancy with a brief note on the risk factors.
2. Discuss in detail the pathophysiology of preeclampsia.
3. Describe the signs, symptoms and complication of preeclampsia.
4. Describe the role of placental exosomes as a potential markers of abnormal placentation.
5. What are exosomes? Write their source and describe how they are isolated and purified.
6. What is DNA sequencing? Name the different methods of DNA sequencing with a note on sanger's technique.
7. Write the principle and applications of electrophoresis. Explain PAGE in detail.
8. Explain the principle and application of western blot technique.
9. Explain RFLP and write about its applications.
10. Give a detailed account of DNA extraction and purification.

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