

**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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**Biochemistry**

**Paper – II**

**Area of Specialization**

**Q.P Code: 1302**

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

*Draw neat labelled diagrams wherever necessary.*

**LONG ESSAY**

**10 X 10 = 100 Marks**

1. What is hepatic encephalopathy? How is it classified? Write a brief note on its diagnosis.
2. Write an essay on biochemical investigations of liver cirrhosis and interpretations.
3. What are the pre-analytical errors? How to minimize them in a tertiary care setting?
4. Describe the blood supply to the liver.
5. How to validate and establish a biomarker specific for liver cirrhosis?
6. Define and explain mean, median and mode in frequency distribution.
7. What is portal hypertension? How does it develop? What are the causes?
8. Classify laboratory safety procedures, adding specific notes on each.
9. Write a note on enzymes released to blood from bile canaliculi and their investigation in blood.
10. What is NAFLD? How is it caused? How is it investigated?

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