

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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Anatomy

Paper – II

Area of Specialization

Q.P Code: 1102

*Your answers should be specific to the questions asked.**Draw neat labelled diagrams wherever necessary.***LONG ESSAY****10 X 10 = 100 Marks**

1. Discuss genetic causes of hearing losses. Explain the inheritance of deafness according to Mendel's law.
2. Explain the involvement of GJB2 gene in congenital non-syndromic hearing impairment.
3. Give the principle of PCR technique. Explain its utility in clinical diagnosis.
4. Describe the principle and applications of gel-electrophoresis in genetic analysis. Comment on DNA sequencing and its applications.
5. Gross anatomy of uterus: Location and normal position
Parts.
Relations.
Supports.
Blood supply.
Clinical aspects.
6. Histology of liver.
7. Development of trachea and lungs with anomalies.
8. Enumerate the causes of hearing loss in children. Audiological evaluation of Hearing loss in a 1 year old child.
9. Explain the pathophysiology of STRC gene Mutation and GJB2 related non syndromic, hearing loss.
10. Classify the types of congenital malformation of the inner ear as described by Senogolu. Outline the salient features of these types. Briefly describe the components of hearing aid and various types.

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