Syllabus for Ph.D. Course Works in Botany (2023-24)

There will be two papers one each with 100 maximum marks

Paper-I Research methodology, Advance Tools and Techniques, Quantitative Data Analysis and Computer fundamental Taxonomic and Ecological Data Analysis

Paper-II Review of Literature & Seminar

Paper	'-I -Research methodology, Advance Tools and Techniques, Quantitative Data Analysis and Computer fundamental Taxonomic and Ecological Data Analysis	Maximum Marks
A	Research methodology – Essential steps in research: Identification, Selection of Objectives, Research design: - components, importance of literature collection, citation & indexing, research ethics, IPR, Research report Presentation table, figure, formatting and typing	25
В	Advance Tools & Techniques – Advanced microscopy confocal phase contrast & election microscopy, Electrophoresis, HPLC, PCR, DNA & Protein sequencing, spectrophotometery.	25
С	Quantitative Data Analysis and Computer Fundamental – Standard deviation, Standard error, coefficient of variation, correlation & regression t-test, frequency distribution. Computer Application – Software of biostatistics, SPSS, COSTAT, MS WORD, MS EXCEL, MS POWER POINT	25
D	Taxonomic & Ecological Data Analysis – Morphological basis of plant Identification, Taxonomy in relation to cytology & Phytochemistry, Environmental sampling methodology, Isolation. Preservation & Identification of micro organism.	. 25
Paper	-II -Review of Literature & Seminar	Maximum Marks
A	Review of Literature – Writing review of literature in the area of the proposed Ph.D Prgramme	50
	Seminar - Based on the review of Literature	

Note :-

- There will be FOUR units (A,B,C & D) of 25 marks each. The pattern will include both objective (multiple – choice question) and objective (short answer, using 50 to 100 words) question.
- The Candidate must be obtained 50% or more marks to qualify in the course work.The answer paper will be assessed independently by two examiners.

Dr. At. Shinstore) (Dr. Shirt Shirmstore) (Dr. Shorram Kunjara)

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