



Estd. 1962

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**DEPARTMENT OF BOTANY**  
SHIVAJI UNIVERSITY, KOLHAPUR - 416 004,  
MAHARASHTRA

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Date:- 31.03.2023

## NOTICE

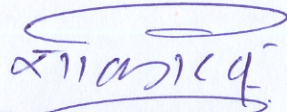
All the M. Phil. / Ph. D. students, who have attempted theory examination (M. Phil./ Pre Ph. D.), are hereby informed that, their internal evaluation will be done on Saturday, 08/04/2023 at 10.30 am in the Department of Botany, Shivaji University, Kolhapur.

For the internal evaluation of Paper I and paper II, the assignments given herewith has to be written in own hand writing and submitted on 08/04/ 2023 at the time of presentation for the internal evaluation of Paper III.

For the internal evaluation of Paper III, the candidates have to appear before committee with power point presentation, for which 10 minutes will be given followed by discussion. The presentation should be preferably based on the syllabus of Paper III.

Place: Kolhapur

Date: 31/03/2023.

  
**Prof. & Head,**  
**Department of Botany**  
Shivaji University,  
Kolhapur.



### **Assignment for the Paper I: Research Methodology in Botany**

*Write the answers of the following questions:*

- Q. 1. A) Describe the basic principles of experiment.
- B) Write in detail on various types of experimental designs along with their merits and demerits.
- C) Write notes on- Sampling, and Replication.
- Q. 2. Describe various parametric and non-parametric tests with examples.
- Q. 3. Describe principle, applications and procedure of using analytical instruments- GC MS, HPLC and FTIR.

### **Assignment for the Paper II: Recent Trends in Botany**

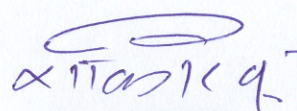
*Write the answers of the following questions:*

- Q. 1. Describe the recent classification of fungi. Add a note on phylogeny of fungi.
- Q. 2. Describe with example Stele, Sori, Sporangia and Gametophyte in relation to Pteridophyte evolution.
- Q. 3. Explain the role of anatomy and embryology in taxonomy.
- Q. 4. Explain the C<sub>3</sub>, C<sub>4</sub> and CAM pathways of carbon fixation. Add a note on climate resistant crops.

### **Assignment for the Paper III:**

Presentation (PPT) before committee preferably based on Paper III of your choice followed by discussion.

Place: Kolhapur  
Date: 31/03/2023.

  
**Prof. & Head,**  
**Department of Botany,**  
**Shivaji University,**  
**Kolhapur.**