

**Savitribai Phule Pune University**  
**Practical Examination in M.Sc. Botany**  
**M.Sc. I (Semester I) (Choice Based Credit System Syllabus 2019 Pattern)**  
**BOUP 115 :Practical based on BOUT 111, BOUT 112 & BOUT 113**  
(Plant Systematics I, Cell Biology, Cytogenetics, Plant Breeding and Evolution)

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**Time: 11:00 am onwards (more than 4 hrs.)**

**Marks: 70**

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**Q.1 a)** Identify, classify & comment on the specimen 'A'. Make labelled sketches & show the preparation to the examiner\_\_\_\_\_. **(5M)**

b) Identify, classify & comment on the specimen 'B'. Make labelled sketches & show the preparation to the examiner\_\_\_\_\_. **(5M)**

c) Identify, classify & comment on the specimen 'C'. Make labelled sketches & show the preparation to the examiner\_\_\_\_\_. **(5M)**

**Q.2** Perform a Major Experiment 'D' as per the guidelines----- **(15M)**

**Q.3 a)** Make a temporary preparation of a given material 'E'. Sketch, label and comment on the preparation. Show the slide / Results to the examiner. **(08M)**

b) Solve the problem based on given data/material **(07M)**

**Q.4 Spotting** **(21M)**

F. Identify and comment

G. Identify and comment

H. Identify and comment

I. Identify and comment

J. Comment on floral biology

K. Give role of the Chemical

L. Comment on the given photograph

**Q.5 Viva –Voce**

**(04)**

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**BODP 114: Practical based on BODT 114**  
(Pomoculture and Fruit Processing Technology)

**Time: 11:00 am onwards (more than 4 hrs.)**

**Marks: 35**

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- Q.1.a. Perform any one method of propagation using suitable plant material [06]  
b. Perform any one method of Training/ Pruning using suitable plant material [06]

or

- b. Demonstrate the effect of growth regulator on ripening in any fruit [06]  
Q.2. Prepare Jam/Jelly/Marmalade/Squash/Candy from a locally available fruits [08]

- Q.3. Identify and Comment on [12]  
A. Comment on any two fruit maturity indices of the given fruit  
B. Comment on growth/ fruiting habit of the given fruit  
C. Identify and comment on method of harvesting  
D. Identify and comment on a by-product of wastes from fruits

- Q.4. Viva-Voce [03]

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**BODP 114 :Practical based on BODT 114**  
(Biofertilizer and Algal Technology)

**Time: 11:00 am onwards (more than 4 hrs.)**

**Marks: 35**

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- Q.1.a. Perform the isolation of PSB/*Rhizobium* from suitable material 'A' [08]  
b. Isolate and mount any two nitrogen fixing Cyanobacteria from  
sample 'B' show the preparation to the examiner [04]
- Q.2. Demonstrate isolation and culture of *Spirulina* on a suitable medium [08]
- Q.3. Identify and Comment on [12]  
C. Comment on method of mass multiplication  
D. Identify and Comment  
E. Identify and give applications  
F. Identify and comment
- Q.4. Viva Voce [03]