SAVITRIBAI PHULE PUNE UNIVERSITY

(Formerly University of Pune)

Booklet of Practical Skeleton Papers for

F. Y. B. Sc. Botany Practical Examination

New Syllabus-CBCS Pattern (June 2019 onwards)

General Guidelines:

1. This booklet is only the guideline.
2. This booklet includes skeleton papers, guidelines to the examiner to set the practical question paper and scheme of marking for semester I and II.
3. Examiners are advised to set question paper for each batch separately on the basis of skeleton and guidelines supplied with booklet.
4. The experts should be made available for the preparation of prerequisites to conduct the practical examination.
5. Student must attend the excursion and submit the excursion report along with duly certified journal.
6. Use of calculator is allowed in practical examination.
7. Each batch should have two examiners. Both the examiners will set question paper/batch. Remuneration for practical paper setting and paper assessment is as per rates of remuneration for examination work SPPU, Pune 2019.

SAVITRIBAI PHULE PUNE UNIVERSITY

F. Y. B. Sc. Semester Practical Examination in Botany

SEMESTER-I

New Syllabus-CBCS Pattern (June 2019 onwards)

Time: 10:00 am onwards (Not less than 3 hours) Max. Marks: 35

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1. Assign the specimen 'A' to its respective plant group on the basis of characters. Describe, Sketch and label thallus structure and show the preparations to the examiner. (08)

2. Make a temporary stained preparation of T. S. of specimen 'B'. Identify on the basis of anatomical features. Show the preparation to the examiner. (07)

3. Describe any two whorls of the specimen 'C'. (04)

4. Perform as per instructions (12)
   D. Identify the form and comment on its type.
   E. Identify and describe the type of inflorescence.
   F. Comment on the step of the cultivation of edible Mushroom.
   G. Identify and describe the type of fruit.

5. Visit report (04)

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SEMESTER-I

New Syllabus-CBCS Pattern (June 2019 onwards)

Time: 10:00 am onwards Max. Marks: 35

Guidelines to the Examiner

1. Specimen A: Thallus of ***Spirogyra*/ *Agaricus*/*Riccia***.
2. Specimen B: Dicotyledonous/ Monocotyledonous **Root/Stem/Leaf**.
3. Specimen C: Any suitable flower for **Calyx/Corolla/Perianth/Androecium/Gynoecium**.
4. Identify and describe as per instructions.

   D. Any one form of Lichen.

   E. Any one type of inflorescence.

   F. *Agaricus*/*Pleurotus(**spawn /specimen/pleurotus bed)***

   G. Any one type of fruit.
5. Visit report on Botanical Excursion.

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F. Y. B. Sc. Semester Practical Examination in Botany

SEMESTER-I

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Time: 10:00 am onwards Max. Marks: 35

Scheme of Marking

1. Specimen A:

Diagnostic Features	: 02
Identification	: 01
Classification with reason	: 02
Sketch and label	: 01
Preparation	: 02

2. Specimen B:

Stained preparation	: 02
Identification	: 02
Comments	: 03

3. Specimen C: Any suitable flower for **Calyx/Corolla/Perianth/Androecium/Gynoecium**.

Morphological terms	: 02
Diagnostic Features	: 02

4. Identify and describe as per instructions.

D.	Idenfication	: 01
	Description	: 02
E.	Idenfication	: 01
	Description	: 02
F.	Idenfication	: 01
	Description	: 02
G.	Idenfication	: 01
	Description	: 02

5. Excursion report : 04

SAVITRIBAI PHULE PUNE UNIVERSITY

F. Y. B. Sc. Semester Practical Examination in Botany

SEMESTER-II

New Syllabus-CBCS Pattern (June 2019 onwards)

Time: 10:00 am onwards (Not less than 3 hours) Max. Marks: 35

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1. Assign the specimen 'A' to its respective plant group on the basis of characters. Describe, Sketch and label sporophyte structure and show the preparations to the examiner. (07)
2. Identify the given sample 'B' with suitable confirmation test. Write in brief procedure of extraction. (08)

OR

2. Make a cytological preparation of given material 'B' and show the preparation to the examiner. (08)
3. Set up the physiology experiment. Write the requirement and procedure. Show the result to the examiner. Comment on physiological phenomenon in given material 'C'. (07)

OR

3. Estimate amount of chlorophyll from the given data 'C'. (07)
4. Perform as per instructions (09)

   D. Give common, botanical name and economic importance of the specimen.

   E. Give common, botanical name and economic importance of the specimen.

   F. Identify and comment on the type of cell.

5. Visit report (04)

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SAVITRIBAI PHULE PUNE UNIVERSITY

F. Y. B. Sc. Semester Practical Examination in Botany

SEMESTER-II

New Syllabus-CBCS Pattern (June 2019 onwards)

Time: 10:00 am onwards Max. Marks: 35

Guidelines to the Examiner

1. Specimen A: Thallus of ***Nephrolepis***/***Cycas***.
2. Specimen B: DNA Sample./DNA sample CT

OR

2. Specimen B: Any suitable plant material for Mitosis/ Meiosis.

Preferably (onion buds, Rhoeo Buds,-Meiosis,Onion root tips (Mitosis)

3. Specimen C: Any suitable plant material for Plasmolysis.(Rhoeo leaves)

OR

3. Specimen C: Data for Chlorophyll estimation.
4. Identify and describe as per instructions.

   D. Any one economic importance of Pteridophyte/Gymnosperms.

   E. Any one economic importance of angiosperm-Food/Fodder/ Fibers/Horticulture/ Medicines

   F. Any suitable material/specimen to show Prokaryotic/Eukaryotic plant cell.
5. Visit report on Botanical Excursion.

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SEMESTER-II

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Time: 10:00 am onwards Max. Marks: 35

Scheme of Marking

1. Specimen A:

Diagnostic Features	: 02
Identification	: 01
Sketch and label	: 02
Preparation	: 02

2. Specimen B:

Requirement	: 02
Procedure	: 02
Result/Test	: 02
Conclusion	: 02

OR

Specimen B:

Requirement	: 02
Slide preparation	: 02
Stage identification	: 02
Description	: 02

3. Specimen C:

Observation	: 02
Comment	: 03
Conclusion	: 02

4. Identify and describe as per instructions.

D.	Idenfication	: 01
	Description	: 02
E.	Idenfication	: 01
	Description	: 02
F.	Idenfication	: 01
	Description	: 02

5. Excursion report : 04