

Botany Practical Examination, April/May-20

PBO-2002: Botany Practical-V

[BASED ON TOPICS COVERED IN CBO-2002]

[*Plant Anatomy and Plant Ecology*]

Date: / /20

[In force from June 2010]

Place:

Time: 5 Hours]

[Maximum Marks: 50

Instruction: Students are requested to follow instructions given by the examiners.

1. Make the temporary stained preparation of shoot apex/ root apex from the given material **A**. Draw a labeled diagram and show your preparation to the examiner. 05
2. Make the temporary stained preparation of secondary growth from given material **B**. Draw a labeled diagram and show your preparation to the examiner. 04
3. Make a temporary stained preparation from given plant material **C** and show your slide to the examiner.
(Xylem/Phloem/Transfusion tissue/Trichomes/Stomata/Nodal anatomy). 03
4. Determine the minimum size of quadrat and then calculate the Density/Abundance/ Frequency (any five plant species) from given area and show your observations and results to the examiner. 06
5. Estimation of Chloride/Calcium/Total hardness/COD from the given water sample **D**. Show your result to the examiner. 05
6. Estimation of Buffering action/Water holding capacity/Moisture content from given soil sample **E**. Show your result to the examiner. 05

OR

6. Calculation of Phosphorus/Potassium/Electric conductivity from given soil sample **E**. Show your result to the examiner. 05
7. Comment upon given spot: 09
F. _____
G. _____
H. _____
8. (a) Journal 03
(b) Submission 05
(c) *viva-voce* 05