

Botany Practical Examination, November/December-20

PBO-1003: Botany Practical-III

[BASED ON TOPICS COVERED IN CBO-1003]

[Taxonomy and Plant Development and Reproduction]

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. Refer the given specimens **A**, **B** and **C** to their respective families giving reasons. Draw the labeled diagrams, and give their floral formula and floral diagram. **15**

2. Identify the genus and species of given plant specimen **D** by using flora. **04**

3. Dissect out and make a temporary stained/unstained preparation for root/shoot apex from given specimen **E**. Draw a labeled diagram and show your slide to the examiner. **04**

4. Expose, mount and show your unstained/stained preparation to the examiner from given material **F** as per instruction:
Tapetum / Diad / Tetrad / Endosperm haustorium / Embryo with suspensor. **04**

5. Perform *in vitro* germination by hanging drop/suspension method from the given material **G**. Show your preparation to the examiner. **04**

6. Identify and describe the structural peculiarities observed in the given slides and/or specimens **H**, **I**, and **J**. **06**

7. (a) Journal **03**
(b) Submission/Herbarium **05**
(c) *viva-voce* **05**