

VPM's B. N. Bandodkar College of Science, Thane  
S. Y. B. Sc. (SEM IV) Examination 2016-17 March  
REV—USBO401

61312017

Botany

Duration 2<sup>1/2</sup> Hrs

Total Marks 75

- N.B. 1. All questions are compulsory.  
2. Figures to the right indicate full marks.  
3. Draw neat labeled diagrams wherever necessary.
- Q.1 a) Describe life cycle of *Erysiphe*. 10  
OR  
a) Discuss sexual and asexual reproduction in *Xylaria*. 10  
b) Give characteristics and control measures of disease Powdery mildew. 10  
OR  
b) Give characteristics and control measures of disease Late Blight. 10
- Q.2 a) Discuss geological time scale. 10  
OR  
a) Describe the internal structure of *Rhynia* Stem. 10  
b) Describe cone and strobilus of *Selaginella*. 10  
OR  
b) With neat labeled diagram, describe the structure of *Selaginella* stem. 10
- Q.3 a) Classify *Pinus* with reasons. Describe R.L.S. and T.L.S. of *Pinus* wood. 10  
OR  
a) Describe external morphology of *Cordaites*. Add a note on its female strobilus. 10  
b) Describe T.S. of *Pinus* needle. 10  
OR  
b) Give systematic position of *Cordaites*. Discuss internal structure of *Cordaites* stem. 10
- Q.4 Write short notes on any three of the followings 15  
a) General characters of Ascomycetae  
b) Economic importance of *Lichen*  
c) Systematic position of *Rhynia*  
d) Petrification  
e) Male cone of *Pinus*  
f) T.S of *Cordaites* root