

B.N.Bandodkar College of Science, Thane
F.Y.B.Sc. Second Semester Examination 2015 (Old Course) ATKT students.
USBO201
Paper I

Duration :2^{1/2} Hrs

Max 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) Discuss the external morphology of *Nephrolepis* plant. 10
OR
a) Describe the sex organs of *Nephrolepis*. 10
b) Discuss the morphology of *Cycas* plant. 10
OR
b) Give a detailed account of male cone of *Cycas*. 10
- Q.2 a) Discuss the anatomical structure of monocotyledonous root. 10
OR
a) Differentiate between dicot and monocot stem. 10
b) Give a detailed account of epidermal tissue system in plants. 10
OR
b) Discuss different types of stomata studied by you. Add a note on their functions. 10
- Q.3 a) Discuss the characters and two plants of economic importance of family Amaryllidaceae. 10
OR
a) Discuss the characters and two plants of economic importance of family Solanaceae. 10
b) Discuss the characters and two plants of economic importance of sub family Papilionaceae. 10
OR
b) Discuss the characters and two plants of economic importance of family Asteraceae. 10
- Q.4 Write notes on **any three** of the following : 15
1. Ramentum of *Nephrolepis*
2. Seed of *Cycas*
3. T.S. of monocot leaf
4. Sketch and label T.S. of dicotyledonous root
5. Morphological characteristics of sub family Mimosae
6. Economic importance of family Malvaceae