

B. N. Bhandarkar College of Science, Thane
F. Y. B. Sc. (Sem II) Examination 2014-15
USBO202

Duration 2^{1/2} 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 in detail transverse section of dicotyledonous leaf. 10
OR
a) Describe any one type of complex tissue. 10
b) Discuss in detail transverse section of dicotyledonous root. 10
OR
b) Describe in detail transverse section of monocotyledonous stem. 10
- Q.2 a) What is light reaction? Explain non-cyclic type of light reaction with the help of diagram. 10
OR
a) What are C₄ plants? Write peculiar features of C₄ plants. 10
b) Differentiate between Photosystem I and Photosystem II. 10
OR
b) Discuss Calvin cycle (C₃ pathway) in detail. 10
- Q.3 a) State the botanical name, family and active constituents and uses of Tulsi/Holy basil. 10
OR
a) Give an account of Adulsa on the basis of active constituents and uses 10
b) Describe Turmeric with reference to its origin, active constituents, medicinal and cosmetics uses. 10
OR
b) With reference to Medicinal Botany explain Secondary metabolites. 10
- Q.4 Write short notes on following (any three) 15
a) Dicot stomata.
b) Epidermal tissue system.
c) Nature and role of light in photosynthesis
d) Pigment system of plant
e) Medicinal Uses of Ginger
f) Primary Metabolites