

B. N. Bandodkar College of Science, Thane

F. Y. B. Sc. (Sem II) Examination 2014-15

USBO202 *Additional/ATKT June 2015*

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 monocotyledonous root. 10
OR
a) Describe in detail transverse section of dicotyledonous stem. 10
b) What is a complex tissue? Discuss in detail any one type of complex tissue. 10
OR
b) Discuss in detail transverse section of monocotyledonous leaf. 10
- Q.2 a) What is photophosphorylation? Explain cyclic photophosphorylation with the help of diagram. 10
OR
a) What is a photosystem? Add a note on types of photosystem. 10
b) Differentiate between C₃ and C₄ plants. 10
OR
b) Discuss C₄ pathway in detail. 10
- Q.3 a) State the botanical name, family and active constituents and uses of Ginger 10
OR
a) Describe Chandan with reference to its active constituents, medicinal and Cosmetics uses. 10
b) With reference to Medicinal Botany explain Secondary Metabolites. 10
OR
b) Give an account of Turmeric on the basis of active constituents and uses. 10
- Q.4 Write short notes on following (any three) 15
a) Dicot stomata.
b) Types of epidermal hair.
c) Pigment system of plants
d) Kranz anatomy
e) Medicinal Uses of Aloe
f) Medicinal uses of Tulsi/Holy Basil