

B. N. Bandodkar College of Science, Thane
S. Y. B. Sc. (Sem IV) Examination 2014-15
USBO403

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 labelled diagrams wherever necessary.
- Q.1 a) Write a note on various kinds of Paper. 10
OR
a) What is Coir? Write a brief note on sources, processing and uses of it. 10
b) Give an account of Clove, on the basis of origin, parts used and uses. 10
OR
b) What is Fibre? Classify and explain different types of fibres. 10
- Q.2 a) Discuss in detail various features of a formal garden. 10
OR
a) Describe Jim Corbett and Sundarban National parks. 10
b) Describe the standard pattern of constructing a formal garden. 10
OR
b) Discuss in detail any two locations in garden and add a note on important plants used for the same. 10
- Q.3 a) Describe the cell structure of *Agrobacterium tumefaciens*. Add a note on Crown Gall disease. 10
OR
a) What is a reporter gene? Discuss any two examples. 10
b) Describe *Agrobacterium* method of plant transformation. 10
OR
b) What is NCBI? Discuss briefly the services offered by NCBI 10
- Q.4 Write short notes on **any three** of the following . 15
a) Source and uses of Nutmeg
b) Medicinal uses of Saffron
c) History of botanical gardens.
d) Role of botanical gardens in conservation of biodiversity.
e) Edible vaccine
f) Promoters used in plant vectors.