

B.N.Bandodkar College of Science, Thane
S.Y.B.Sc. Third Semester Examination 2013
USBO303

Duration 2 hrs

Max Marks 60

- 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) Give a brief account of tannins. 7
- OR
- a) What are glycosides? Describe any two types of glycosides. 7
b) What are volatile oils? Explain their physical and chemical properties. 8
- OR
- b) Give a brief account of gums and resins present in plants. 8
- Q. 2 a) Explain tropical dry forest. 7
- OR
- a) With reference to forest products explain gums in detail. 7
b) What is deforestation? Explain causes and effects of deforestation. 8
- OR
- b) With reference to classification of forest explain alpine forest. 8
- Q. 3 a) Give a brief account of soil profile. 7
- OR
- a) Describe soil as an edaphic factor. 7
b) Explain the process of soil formation in nature. 8
- OR
- b) What is stratification? Add a note on types of stratification. 8
- Q. 4 a) Answer **any three** of the following in one word/ sentence: 3
1. What is an example of cardiac glycoside?
 2. Name an alkaloid which is in a liquid form.
 3. Define social forestry.
 4. What is afforestation?
 5. What is carbonation?
 6. What is hygroscopic water?
- b) Attempt **any two** of the following: 12
1. Explain the distribution and uses of volatile oils.
 2. What are alkaloids? Describe any two types of alkaloids.
 3. Give a detailed account on forest regeneration.
 4. Explain Raunkiaer's classification of life forms.