

B.N. Bandodkar College of Science, Thane
S.Y.B.Sc Second Term end Examination 2011

Botany Paper I

Duration 2 hrs

Max Marks-60

N.B.		All Questions are compulsory. Figures to right indicate full marks.	Marks
Q.1)	a)	Answer in ONE Sentence: 1) Name the microbial stains used in Gram Staining Technique. 2) What is a Ligule? 3) Which family <i>Cuscuta reflexa</i> (Amarvel) belongs to?	03
	b)	Answer ANY TWO of the following: 1) Describe Acid Fast Staining Technique for bacteria. 2) Describe the internal structure of stem in Selaginella 3) Write note on Herbarium	12
Q2)	a)	What do you mean by culture media in microbiology? Describe PDA medium.	07
	b)	What are microbial stains? Discuss the classification of staining techniques. Add a note on negative staining technique for bacteria. OR Explain the large scale cultivation of <i>Rhizobium</i> for use as biofertilizer.	08 08
Q 3)	a)	Describe the asexual reproduction in Equisetum	07
	b)	With the help of neat labeled diagram describe the structure of Pinus needle OR Describe the structure of male and female cone in Pinus	08 08
Q.4)	a)	Discuss the morphological peculiarities and economic importance of family Apocynaceae	07
	b)	Enumerate distinguishing characters of family Urticaceae . Mention any three plants with their economic importance OR	08
	b)	Describe morphological peculiarities and economic importance of family Rubiaceae	08