

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

Subject  
 Botany Paper I

Duration 2 hrs

Max Marks-60

N.B.			Marks
	1) 2)	All Questions are compulsory. Figures to right indicate full marks.	
Q.1)	a)	Answer in <b>ONE</b> 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 <b>ANY TWO</b> of the following:  1) Describe Acid Fast Staining Technique for bacteria. 2) Describe the internal structure of stem in <b>Selaginella</b> 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 <b>Equisetum</b>	07
	b)	With the help of neat labeled diagram describe the structure of <b>Pinus needle</b> OR Describe the structure of male and female cone in <b>Pinus</b>	08   08
Q.4)	a)	Discuss the morphological peculiarities and economic importance of family <b>Apocynaceae</b>	07
	b)	Enumerate distinguishing characters of family <b>Urticaceae</b> . Mention any three plants with their economic importance  OR	08
	b)	Describe morphological peculiarities and economic importance of family <b>Rubiaceae</b>	08