

**B.N. Bandodkar College of Science, Thane**

**F.Y. B.Sc. Second Term end Examination 2011**

**BOTANY**

**Paper II**

Duration 2 hrs

Max Marks-60

N.B.			Marks
	1) 2)	All Questions are compulsory. Figures to right indicate full marks.	
Q.1)	a)	<b>Answer in one sentence.</b> 1) Mention some important adaptations of mangrove plants. 2) A template of DNA has the sequence ACCCATCTA. What will be its complementary strand sequence? 3) Citing examples, define Olericulture.	1 1 1
	b)	<b>Answer any two of the following.</b> 1) Discuss the different types of food chains studied by you. 2) Describe Watson and Crick's model of DNA. 3) What is aromatherapy? Add a note on raw materials used.	6 6 6
Q2)	a)	What is an ecosystem? Discuss the functional features of ecosystem.	7
	b)	Describe in detailed, any one terrestrial ecosystem studied by you. OR Discuss the production of bio-fuel from <u>Euphorbia</u> sps.	8
Q 3)	a)	Describe structure of pBR 322.	7
	b)	Describe DNA replication in prokaryotes. OR What is gene cloning? Add a note on enzyme S <sub>1</sub> nuclease.	8
Q.4)	a)	Define horticulture. Add a note on floriculture and pomology.	7
	b)	Describe structure of epidermis of human skin. OR Describe the importance of gums as a minor forest produce.	8

.....