

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

Subject - 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)	Answer in ONE sentence 1) Which is the most primitive type of stele? 2) Define vernalisation. 3) What is transcription?	1 1 1																																													
	b)	Answer any two of the following 1) Give a detail account of Siphonostele. 2) Explain the concept of Ecotourism. 3) Discuss the process of Capping of RNA	6 6 6																																													
Q2)	a)	Give an account of anatomical and morphological defense mechanism in plants.	7																																													
	b)	Explain in brief properties of I – girder OR	8																																													
	b)	Give a detail account of the types of vascular bundles.	8																																													
Q 3)	a)	Explain the stages of Xerosere succession.	7																																													
	b)	Give an account of Environment protection act. OR	8																																													
	b)	Classify plants on the basis of light requirement. Add a note on Pr-Pfr conversion.	8																																													
Q.4)	a)	Describe the characteristics of genetic code.	7																																													
	b)	Give a detail explanation of translation of the genetic message. OR	8																																													
	b)	In a weight reduction programme, 14 men were given vigorous diet course along with regular exercise. Whereas second comparable group of 12 men was given normal diet along with normal exercises. After 6 months, the decrease in weight (in Kg.) was noted as given in the table. Find out whether the diet course was responsible for this decrease. (unpaired t- test. $p = 0.05$ Critical value = 2.67)	8																																													
		<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th>Sr.no</th> <th>1</th> <th>2</th> <th>3</th> <th>4</th> <th>5</th> <th>6</th> <th>7</th> <th>8</th> <th>9</th> <th>10</th> <th>11</th> <th>12</th> <th>13</th> <th>14</th> </tr> </thead> <tbody> <tr> <td>X₁</td> <td>8</td> <td>5</td> <td>9</td> <td>6</td> <td>3</td> <td>8</td> <td>10</td> <td>4</td> <td>7</td> <td>9</td> <td>6</td> <td>12</td> <td>7</td> <td>10</td> </tr> <tr> <td>X₂</td> <td>2</td> <td>5</td> <td>3</td> <td>4</td> <td>2</td> <td>4</td> <td>3</td> <td>1</td> <td>5</td> <td>3</td> <td>1</td> <td>1</td> <td>-</td> <td>-</td> </tr> </tbody> </table>	Sr.no	1	2	3	4	5	6	7	8	9	10	11	12	13	14	X ₁	8	5	9	6	3	8	10	4	7	9	6	12	7	10	X ₂	2	5	3	4	2	4	3	1	5	3	1	1	-	-	
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