Assignment 6

The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment.

1) The foreign gene harbored in a genetically modified plant cell is called a ____________

No, the answer is incorrect.
Score: 0
Accepted Answers:
Vector, Chimeric gene

2) Transcriptional ________ can bind to the promoter and regulate the targeted plant gene expression

No, the answer is incorrect.
Score: 0
Accepted Answers:
Exons, Introns, Enhancers, Repressors

3) The promoter of the 35S RNA is a very strong ________ promoter responsible for the transcription of the whole CaMV genome.

No, the answer is incorrect.
Score: 0
Accepted Answers:
Constitutive, Non-constitutive

4) Beta-glucuronidase (GUS) and luciferase (LUC) reporter systems can be used to analyze the activity of the ________ in transgenic plant systems

No, the answer is incorrect.
Score: 0
Accepted Answers:
Vector system, Promoter, Reporter gene, Silencer

5) The inability of two plasmids to coexist in the same host cell is termed as

No, the answer is incorrect.
Score: 0
Accepted Answers:
Conjugative plasmid, Non-conjugative plasmid, Plasmid incompatibility

6) Match the following in an Agrobacterium mediated transformation process of plant cells

<table>
<thead>
<tr>
<th>No</th>
<th>T-DNA</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>T-DNA</td>
<td>Protein that recognizes and responds to plant phenolic compounds</td>
</tr>
<tr>
<td>2</td>
<td>Vir G</td>
<td>Responsible for tumor formation</td>
</tr>
<tr>
<td>3</td>
<td>Vir A</td>
<td>Contains auxins and cytokinins</td>
</tr>
<tr>
<td>4</td>
<td>Onc region</td>
<td>Allows bacterial survival in presence of bacteroial compounds</td>
</tr>
<tr>
<td>5</td>
<td>Vir H</td>
<td>Transcription activator</td>
</tr>
</tbody>
</table>

No, the answer is incorrect.
Score: 0
Accepted Answers:
T-DNA, Vir G, Vir A, Onc region, Vir H

7) How is the plasmid DNA introduced into the cells by exposing them to electrical pulses which induce transient pores in the plasmalemma?

No, the answer is incorrect.
Score: 0
Accepted Answers:
Lipofection, Gene gun, Electroporation, Microinjection, Ultrasonication

8) The answer is incorrect.
Score: 0
Accepted Answers:
Electroporation