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1. The first crop plant genome sequenced

- a. Maize
- b. Wheat
- c. **Rice**
- d. Barley

2. Urea and Formamide can:

- a. Increase T_m of DNA
- b. **Decrease the T_m of DNA**
- c. Helps faster re-annealing of DNA
- d. Does not effects denaturation of DNA

3. The chromogenic substrate of X-gal is:

- a. 5-chloro-4-bromo-3indolyl-beta-D-galactoside
- b. **5-bromo-4-chloro-3indolyl-beta-D-galactoside**
- c. 5-chloro-5-bromo-3indolyl-beta-D-galactoside
- d. 5-bromo-5-chloro-3indolyl-beta-D-galactoside

4. The first transgenic plant to be produced:

- a. Rice
- b. Maize
- c. Cotton
- d. **Tobacco**

5. Which of the following molecules is useful as a measure of relatedness beyond species level between organisms:

- a. mRNA
- b. tRNA
- c. **rRNA**
- d. miRNA

6. Explants used for tissue culture can be taken from:

- a. Bud
- b. Root tip
- c. Nodal stem segments
- d. **All of these**

7. Indole -3-acetic acid is:

- a. A gibberellin
- b. A cytokinin

- c. **An auxin**
- d. None of these

8. A low auxin:cytokinin ratio leads to:

- a. **Shoot formation**
- b. Root formation
- c. Fruit formation
- d. All of these

9. Hairy root cultures are produced by using:

- a. *Agrobacterium tumefaciens*
- b. ***Agrobacterium rhizogenes***
- c. *Agrobacterium vitis*
- d. *Agrobacterium rubi*

10. Klenow fragment is derived from:

- a. **DNA Pol-I**
- b. RNA Pol II
- c. DNA Ligase
- d. Reverse Transcriptase