

# BDY636

## GERMPLASM AND PLANT TISSUE CULTURE



**MULTIPLE CHOICE.** Choose one answer that best completes statement or answers the question. Click "check my answers" and then refer to marks given on the top left of worksheet

**1. Haploid plants can be obtained from:**



anther culture

bud culture

leaf culture

root culture

Meristem

Protoplast

Axillary buds

Cell suspension

**2. The production of secondary metabolites requires the use of:**



organogenesis

test tube culture

double fertilization

cellular totipotency

**3. The formation of embryoids from the pollen grains in the tissue culture medium is due to:**



Sodium acetate

Sodium nitrate

Sodium chloride

Sodium alginate

**4. Synthetic seeds are produced by the encapsulation of somatic embryos with:**



# BDY636

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5. Which of the following is the main application of embryo culture?



Clonal propagation

Production of embryoids

Induction of somaclonal variations

Overcoming hybridisation barriers

Plants raised in tissue culture

Plants exposed to gamma rays

Plants growing in polluted soil or water

Plants transferred by a recombinant DNA technology

6. In which of the following conditions do the somaclonal variations appear?



7. Which of the following is cultured to obtain haploid plants?



Embryo

Nucleus

Apical bud

Entire anther

Agrobacterium

Plasmid

Virus

Phasmid

8. Which of the following vectors is used in crop improvement and crop management?



# BDY636

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9. Which of the following growth hormones produces apical dominance?



Ethylene

Cytokinin

Auxin

Gibberellin

Rapid Clonal Propagation

Somaclonal Variations

Embryo Rescue

Transgenic Plants

10. Which of the following doesn't involve tissue culture?



### END OF THE QUESTION