This biotechnology quiz is designed to assess your basic knowledge in 'Plant Tissue Culture'. Questions come under 'medium' category. Choose the best answer from the four options given. When you've finished answering as many of the questions as you can, scroll down to the bottom of the page and check your answers by clicking 'Get score'. Percentage score will be displayed along with right answers.

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flowering in culture medium

development of fruit from a flower in a culture

development of an organ from a cell in culture medium

all of these

2. Haploid plants can be obtained from

bud culture

leaf culture

root culture

anther culture

3. In tissue culture medium, the embryoids formed from pollen grains is due to

cellular totipotency

organogenesis

double fertlization

test tube culture

4. In plant tissue culture, which of the following shows totipotency?

meristem

sieve tube

xylem vessel

collenchyma

5. In tissue culture of parenchyma, mitosis is accelerated in the presence of

auxin only

cytokinin only

auxin and cytokinin

auxin and gibberellin

6. In plant tissue culture, the callus tissues can be regenerated into complete plantlets primarily by altering the concentration of
sugars
vitamins
amino acids
hormones
7. A major application of embryo culture is in
clonal propagation
production of embryoids
overcoming hybridisation barriers
induction of somaclonal variations
8. The problem of necrosis and gradual senescence while performing tissue culture can be overcome by
spraying auxins
spraying cytokinins
suspension culture
subculture
9. The final stage in the tissue culture programme before the new plants are taken out for cultivation in the fields is known as
hardening
micropropagation
caulogenesis
embryogenesis
10. Somaclonal variation appears in plants
growing in polluted soil or water
exposed to gamma rays
raised in tissue culture
transformed by recombinant DNA technology

- 1. development of an organ from a cell in culture medium
- 2. anther culture
- 3. cellular totipotency
- 4. meristem
- 5. auxin and cytokinin
- 6. hormones
- 7. overcoming hybridisation barriers
- 8. spraying cytokinins
- 9. hardening
- 10. raised in tissue culture