



SET 1

QUESTION 1

Plant biotechnology involves

(a) production of valuable products in plants

(b) rapid clonal multiplication of desired genotypes

(c) production of virus free plants

(d) all of these

(a) medium is continuously replaced

(b) medium is loaded only at the beginning

(c) no depletion of medium occurs

(d) cellular wastes are continuously removed and replaced

QUESTION 3

Artificial seeds are

(a) seeds produced in laboratory condition

(b) seeds encapsulated in a gel

(c) somatic embryos encapsulated in a gel

(d) zygotic embryos encapsulated in a gel

QUESTION 2

Batch cultures are type of suspension culture where

QUESTION 4

The most common solidifying agent used in micropropagation is

suspension culture

QUESTION 5

The culturing of cells in liquid agitated medium is called

anther culture

QUESTION 6

Which of the following is the best suited for production of virus free plants

agar

ovary culture

QUESTION 7

Haploid plants are produced in large numbers by

and

meristem culture

QUESTION 8

Hairy cultures for secondary metabolite production are induced by transforming plant cells with

(a) virus

(b) *Agrobacterium tumefaciens*

(c) *Bacillus thuringiensis*

(d) *Agrobacterium rhizogenes*

(a) in vitro variation

(b) mutation

(c) somaclonal variation

(d) all of these

QUESTION 9

The variation in invitro culture is called as

(a) micro and macro nutrients, glucose

(b) micro and macro nutrients, vitamins, agar

(c) micro and macro nutrients and growth regulators, glucose

(d) micro and macro nutrients, growth regulators, agar, vitamins, glucose

QUESTION 3

The basic components of tissue culture media are