

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. Agar agar is added to tissue culture media as:

carbon source

a growth regulator

nitrogen source

solidifying agent



2. Agar agar, used in plant tissue culture is extracted from:

a fungi

a bacteria

an algae

a virus



3. Glucose is added to the tissue culture media as:

growth regulator

carbon source

solidifying agent

an antibiotic



4. Explant is:

any cut part of the plant used in tissue culture

a plant extract used in tissue culture

a source of growth regulators added to media

solidifying agent



5. Totipotency refers to :

the ability of a plant cell to arrest the growth of a plant

the ability of a plant cell to develop disease in plant

the ability of a plant cell to develop into a complete plant

the inability of a plant cell to develop into a callus



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6. Somatic embryos are:



embryos developed from
zygote after fertilization

embryos developed from
egg without fertilization

embryo like structure developed
from the cells of callus

embryo developed by
ovules

7. In vitro culture of plant parts need:

controlled environmental
condition

aseptic condition

maintenance of pH

all of these



**8. An amorphous mass of loosely arranged thin
walled parenchyma cells developing from explant is
called:**



thallus

Callus

Callose

embryoids

9. The unique feature of callus is:

it gives rise to cells only

it can give rise to zygotic
embryos

it can give rise to root, shoot
and embryoids

it can give rise to flowers
directly



**10. Genetic variation observed in callus obtained
from tissue culture is called:**



morphogenesis

rhizogenesis

callogenesis

somaclonal variation