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