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

LIVEWORKSHEETS

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.

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

LIVEWORKSHEETS