

PLANT TISSUE CULTURE AND BIOTECHNOLOGY

SHORT ANSWER QUESTIONS

1. Surface sterilisation
2. Subculture
3. Somatic embryo
4. Protoplast
5. Somatic hybrid
6. Biotechnology
7. Transgene
8. Transgenic organism
9. Sustainable agriculture
10. Sterilisation
11. What is plant tissue culture?
12. What is an explant?
13. What is callus culture?
14. What is a suspension culture?
15. What is totipotency?
16. What is regeneration?
17. What is plant biotechnology?
18. What are protoplasts?
19. What is modern biotechnology?
20. What is a transgenic crop or GM crop?
21. What is GM food?
22. What are biopesticides?

ANSWERS

1. When the explants are treated with specific anti-microbial chemicals, the procedure is called surface sterilization.
2. The regular transference of tissues, into new culture vessels containing fresh media, is called subculturing.
3. A somatic embryo develops from a somatic cell, which is comparable to a zygotic embryo.
4. Plant cells lacking cell wall are called protoplasts.
5. A hybrid produced by fusion of somatic cell of two species is called somatic hybrid.
6. Biotechnology may be defined as the

7. use of microorganisms, animals or plant cells, or their components to generate products and services useful to human beings.
7. A gene that is transferred into an organism by genetic engineering is called transgene.
8. An organisms contains and expresses a transgene is called transgenic organism.
9. Sustainable agriculture primarily renewable resources, which cause minimum pollution and obtain optimum yield level
10. When medium instruments are treated with steam, dry heat or alcohol, or subjected to filtration to make them free from microbes is called sterilisation.
11. It is maintenance and growth of plant cells, tissues and organs in suitable culture medium in vitro.
12. It is a plant part that is excised from its original location and used initiating a culture.
13. In callus culture, cell division in the explant forms a callus which is an unorganilli mass of cells.
14. It consists of single cells and small groups of cells suspended in a liquid medium.
15. The ability of plant cells to regenerate into complete plants is called totipotency.
16. The developm of an organised structure, like root, shoot or somatic embryo from cultured cells.
17. It is the use of plant cells to generate useful products and/or services.
18. Plant cells lacking cell wall are called protoplast.
19. The production technologies based on

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