

Chapter 10

Plant Biotechnology

- Some biotic elicitors are
(A) Chitosan (B) Cellulase
(C) Cyclodextrin (D) Glutathione
- Which of the following take part in the biosynthesis of terpenes?
(A) Mevalonic acid (B) Methylerythritol phosphate
(C) Acetyl-CoA (D) Phenol
- Recalcitrant seeds
(A) have ability to survive in extremely dry conditions.
(B) can't survive in temperature less than 10° C.
(C) have ability to germinate rapidly.
(D) can be store for a long period of time.
- The encapsulation of somatic embryos can be carried out by
(A) automatic encapsulation process. (B) calcium chloride solution.
(C) coating protein. (D) sodium alginate.
- Which of the following does not act as a fusogen in protoplast fusion?
(A) 2,4 D (B) Polyethylene glycol
(C) Calcium (D) PVA
- The modification of exogenous compounds by plant cell is called
(A) Biotransformation. (B) Bioconversion.
(C) Bioconjugation. (D) Biophytomodification.
- Which of the following is(are) auxins?
(A) 1-Naphthaleneacetic acid (B) Indole-3-butyric acid
(C) 2,4-Dichlorophenoxyacetic acid (D) Indole-3-acetic acid
- Which of the following hormone(s) is/are required for a callus to differentiate?
(A) Ethylene (B) Auxin
(C) Cytokinin (D) Gibberellin
- Which of the following pathways of the synthesis of nucleotides are used in cells?
(A) *de novo* pathways (B) SN₂ pathway
(C) A simulated folding pathway (D) Salvage pathways
- Out of the following, which is/are the basic component(s) of culture media used for plant cultivation?
(A) Complex mixture of salts (B) Amino acids
(C) Serum albumin (D) Sugar/ sucrose

Answer Key

1. (1), (2), (4)

2. (1), (2), (3)

3. (2), (3)

4. (1), (2), (4)

5. (2), (3), (4)

6. (1), (2)

7. (A), (B), (C), (D)

8. (B), (C)

9. (A), (B)

10. (A), (B), (D)