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**1. Who is the father of tissue culture?**

a) Bonner

**b) Haberlandt**

c) Laibach

d) Gautheret

**2. The production of secondary metabolites require the use of**

a) protoplast

**b) cell suspension**

c) meristem

d) auxillary buds

**3. Synthetic seed is produced by encapsulating somatic embryo with**

a) sodium chloride

**b) sodium alginate**

c) sodium acetate

d) sodium nitrate

**4. Hormone pair required for a callus to differentiate are**

**a) auxin and cytokinin**

b) auxin and ethylene

c) auxin and abscicic acid

d) cytokinins and gibberlin

**5. DMSO (Dimethyl sulfoxide) is used as**

a) Gelling agent

b) alkylating agent

c) Chelating agent

**d) Cryoprotectant**

**6. The most widely used chemical for protoplast fusion, as fusogens, is**

- a) Mannitol
- b) Sorbitol
- c) Mannol

**d) Poly ethylene glycol (PEG)**

**7. Cybrids are produced by**

- a) Fusion of two different nuclei from two different species
- b) Fusion of two same nuclei from same species
- c) Nucleus of one species but cytoplasm from both the parent species**
- d) None of the above

**8. Callus is**

- a) Tissue that forms embryo
- b) An insoluble carbohydrate
- c) Tissue that grows to form embryoid
- d) Un organised actively dividing mass of cells maintained in cultured**

**9. Part of plant used for culturing is called**

- a) Scion
- b) Explant**
- c) Stock
- d) Callus

**10. Growth hormone producing apical dominance is**

- a) Auxin**
- b) Gibberellin
- c) Ethylene

d) Cytokinin