ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION

SOLUTIONS – 65

Class: XII Sub: Biological Science Date: 06.02.2021

Topic: Ch 09 (part 3) Biofortification,Single cell protein and Tissue culture

F.M. : 15

Choose the correct option: (1x15=15)

1. Biofortification is defined as breeding of crops with higher levels of ……. to improve public health
   a) Vitamins b) proteins c) healthier fats d) all of these
2. Following is the chief objective of Biofortification:
   a) to improve oil quality b) improve vitamin content c) improve protein quality d) all of these
3. Biofortified bitter gourd is rich in ……
   a) Vitamin C b) Vitamin A c) Vitamin D d) all of these
4. Microbes that are grown on an industrial scale as a source of good protein is called:
   a) Single cell protein b) super cell protein c) pure protein d) all of these
5. The following is the importance of Single cell protein
   a) Provides protein rich supplement b) bridges gap between demand and supply of proteins c) reduces environmental pollution d) all of these
6. Filamentous fungi used as a single cell protein:
   a) *Candida utilis* b) *Fusarium graminearum* c) *Spirulina* d) all of these
7. Bacterial species used as Single cell protein is :
   a) *Methylophilus methylotrophus* b) *Xanthomonas campestris* c) *Albugo candida* d) *Alternaria solani*
8. The inherent capacity of a cell to regenerate a whole new plant is called:
   a) genetic constitution b) micropropagation c) totipotency d) all of these
9. The method of producing large number of plants through tissue culture is called:
   a) micro propagation b) plant breeding c) hybridisation d) totipotency
10. Virus free cultures can be done by taking tissue from:
    a) Shoot tip b) Root tip c) leaf d) none of these
11. Isolated protoplasts are devoid of :
    a) Cell membrane b) cell membrane and cell wall c) cell wall d) either (a) or (c)
12. Genetically identical plants that are obtained from tissue culture are called:
    a) somaclones b) clones c) tissue clones d) all of these

13. Isolated protoplasts can be made to fuse using:
    a)Poly ethylene glycol b) electrofusion c) radiation d) both(a) and (c)
14. The technique of obtaining hybrids by fusion of isolated protoplasts :
    a) somatic hybridization b) micropropagation c) tissue culture d) all of these
15. The process where embryos are excised from seeds and cultured to get plants due to high embryo mortality is called:
    a) Embryo caution b) embryo rescue c) embryo saviour d) all of these

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