

***** EXAMINATION *****

PRODUCTION OF THERAPEUTIC PROTEINS IN PLANTS

1. **Large molecules composed of long chains of subunits**
 - a) called amino acids are proteins
 - b) called amino acids are nutrients
 - c) called amino acids are microbes
 - d) called amino acids are analgesics

2. **Complex proteins undergoing the addition of phosphate groups**
 - a) is called phosphate addition
 - b) is called phosphorylation
 - c) is called phosphate summation
 - d) is called phosphate growing

3. **Peptides may use**
 - a) bacterial cells in grown in sterile cultures
 - b) fungal cells in grown in sterile cultures
 - c) mammalian cells in grown in sterile cultures
 - d) Any of the above

4. **Plant-made pharmaceuticals are also known as**
 - a) therapeutics
 - b) nutrients
 - c) biologics
 - d) antigens

5. **Expression of thioredoxin in foods would increase**
 - a) the digestibility of proteins
 - b) the digestibility of nutrients
 - c) the digestibility of liquids
 - d) the digestibility of fruits

6. **Chloroplast transformation has been successful in**
 - a) tobacco and potato
 - b) trees and fruits
 - c) plants and fruits
 - d) tobacco and fruits

7. **The use of recombinant plant virus to deliver genes into**
- a) plant cells is transvection
 - b) plant cells is transduction
 - c) plant cells is transversion
 - d) plant cells is transfection
8. **The addition of specific sugars to proteins is**
- a) proteining
 - b) azucar summation
 - c) glycosylation
 - d) None of the above
9. **Compartmentalization within the cell or tissue can affect**
- a) protein stability and purification procedures
 - b) protein life
 - c) protein extraction
 - d) protein folding
10. **The isolation distance for pollen spread of barley is**
- a) 100 feet
 - b) 300 feet
 - c) 500 feet
 - d) 700 feet
11. **The isolation distance for pollen spread of rice is**
- a) 100 feet
 - b) 300 feet
 - c) 500 feet
 - d) 700 feet
12. **The isolation distance for pollen spread of corn is**
- a) 1000 feet
 - b) 3000 feet
 - c) 5280 feet
 - d) 7000 feet
13. **The spread of pollen from corn can be reduced by**
- a) fertilizing
 - b) removing tassels
 - c) watering
 - d) spraying with insecticide
14. **Genetic use restriction technologies are also known as**
- a) technology protection systems
 - b) technology production systems
 - c) technology production
 - d) technology systems

15. **Strict identity preservation procedures for pharmaceutical crops are**
- a) required during production
 - b) required during harvesting
 - c) required during processing
 - d) All of the above
16. **An antigen that provokes an immune response is**
- a) an allergen
 - b) a protein
 - c) a nutrient
 - d) a peptide
17. **Chemical bonds that link together amino acids are**
- a) nutrient bonds
 - b) peptide bonds
 - c) amino bonds
 - d) acidic bonds
18. **A preparation of dead or attenuated pathogens is**
- a) a peptide
 - b) a nutrient
 - c) a vaccine
 - d) a antibiotic
19. **A protein that acts as a bioactive to counteract disease is**
- a) a therapeutic virus
 - b) a therapeutic antibiotic
 - c) a therapeutic protein
 - d) a therapeutic extract
20. **A macromolecule composed of one or more polypeptides is**
- a) nutrient
 - b) antibiotic
 - c) vaccine
 - d) protein

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