

## Topic :- Biotechnology & It's Applications

1. A strain of golden rice contains high contents of
  - a) Vitamin-A
  - b) Vitamin-K
  - c) Vitamin-E
  - d) Vitamin-C
2. Restriction endonucleases are enzymes which
  - a) Make cuts at specific positions within the DNA molecule
  - b) Recognize a specific nucleotide sequence for binding of DNA ligase
  - c) Restrict the action of the enzyme DNA polymerase
  - d) Remove nucleotides from the ends of the DNA molecule
3. Which one of the following is the most suitable, medium for culture of *Drosophila melanogaster*?
  - a) Moist bread
  - b) Agar agar
  - c) Ripe banana
  - d) Cow dung
4. Technique used to detect the DNA in a clone is called
  - a) Gel electrophoresis
  - b) Polymerase chain reaction
  - c) Gene therapy
  - d) Autoradiography
5. Genetic engineering is related with
  - a) Eugenics
  - b) Euphenics
  - c) Euthenics
  - d) All of these
6. In 1983, Eli Lilly an American company, first prepared two DNA sequences corresponding to A and B-chains of the human insulin and introduced them in the plasmids of *Escherchia coli* to produce insulin chains. Chains A and B were prepared separately, extracted and combined by creating
  - a) Hydrogen bond
  - b) Disulphide bond
  - c) Covalent bond
  - d) Peptide bond
7. The nucellar embryos were first produced by tissue culture technique in
  - a) *Citrus mexima*
  - b) *Citrus reticulate*
  - c) *Citrus microcarpa*
  - d) Citrus limon
8. Restriction endonucleases are
  - a) Present in mammalian cells for degradation of DNA when the cell dies
  - b) Used in genetic engineering for ligating two DNA molecules
  - c) Used for in *vitro* DNA synthesis
  - d) Synthesized by bacteria as part of their defence mechanism
9. The method of growing micro-organisms as a thin layer on nutrient medium is known as



- a) *Escherichia coli*
- c) *Staphylococcus aureus*

- b) *Bacillus thuringiensis*
- d) *Agrobacterium tumefaciens*

PE