

Topic :- Biotechnology & It's Applications

- The bacterium, *Bacillus thuringiensis* is widely used in contemporary biology as
 - Insecticide
 - Agent for the production of dairy products
 - Source of industrial enzyme
 - Indicator of water pollution
- The technique of DNA fingerprinting was initially developed by
 - Ian Wilmut
 - Har Gobind Khurana
 - Jacque Monod
 - Alex Jeffreys
- Consider the following statements
 - Specific *Bt* toxin gene have been isolated from *Bacillus thuringiensis*
 - Bt* toxin is coded by a gene named *cry*
 - Bt* toxin protein exists as inactive protoxinsWhich of the statements given above are correct?
 - I, II and III
 - I and II
 - I and III
 - II and III
- Silencing of a gene could be achieved by the use of
 - RNAi
 - Antisense RNA
 - Both (a) and (b)
 - None of these
- In callus culture, roots can be induced by the supply of
 - Auxin
 - Cytokinin
 - Gibberellin
 - Ethylene
- Golden rice
 - It is a transgenic variety of rice
 - It contains a good quality of β -carotene (provitamin-A)
 - β -carotene is a principal source of vitamin-A
 - The grains of the rice are yellow in colour due to β -carotene. The rice is commonly called golden riceWhich of the statements given above are correct?
 - I, II and III
 - II, III and IV
 - I, III and IV
 - I, II, III and IV
- GEAC stands for
 - Genetic and Biotechnology Approval Committee
 - Gene Environment Action Committee
 - Genetic Engineering Approval Committee
 - Genome Engineering Action Committee

20. Most widely used bioweapon is

- a) *Bacillus subtilis*
- c) *Bacillus anthracis*

- b) *Pseudomonas putida*
- d) None of these

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