



TARGET : NEET (UG) 2024

Course : SARANSH (Youtube Live CRASH COURSE)

BIOLOGY

DPP

DAILY PRACTICE PROBLEMS

DPP NO. 2

ZOOLOGY: Biotechnology and its applications

DPP No. : 2

- RNA interference (RNAi) technique has been used to control the nematode disease in
 (1) Tobacco (2) Pea (3) Soyabean (4) Ground nut
- ASSERTION** : The Indian herbal medicines based on turmeric and neem has been attempted for patenting by Westem countries.
REASON : Turmeric and neem are not native to India.
 (1) Both assertion and reason are true but reason is the correct explanation of assertion.
 (2) Both assertion and reason are true but reason is not the correct explanation of assertion.
 (3) Assertion is true but reason is false.
 (4) Both assertion and reason are false.
- Crystals of Bt-toxin produced by some bacteria do not kill the bacteria themselves because
 (1) Bacteria are resistant to the toxin (2) Toxin is immature
 (3) Toxin is inactive (4) Bacteria encloses toxin in a special sac
- The genetically-modified (GM) brinjal in india has been developed for
 (1) Enhancing shelf life (2) Enhancing mineral content
 (3) Drought-resistance (4) Insect-resistance
- Bt cotton is resistant to
 (1) virus (2) adverse environmental conditions
 (3) Bollworm (4) Herbicide
- Vitamin A rich transgenic plant is
 (1) Flavr Savr Tomato (2) Golden Rice
 (3) Bt Cotton (4) Vaccinated Potato
- The laws and rules to prevent unauthorised exploitation of bio-resources are termed as–
 (1) Biopatenting (2) Bioethics (3) Bioengineering (4) Biopiracy
- RNA interference is used for which of the following purposes in the field of biotechnology ?
 (1) to develop a plant tolerant to abiotic stresses
 (2) to develop a pest resistant plant against infestation by nematode
 (3) to enhance the mineral usage by the plant
 (4) to reduce post harvest losses
- The genetically-modified (GM) cotton in india has been developed for
 (1) Enhancing shelf life (2) Enhancing mineral content
 (3) Drought-resistance (4) Insect-resistance
 Genetic engineering has been successfully used for producing
 (1) Transgenic models for studying new treatments for certain cardiac diseases
 (2) Transgenic Cow-Rosie which produces high fat milk for making ghee
 (3) Animals like bulls for farm work as they have super power
 (4) Transgenic mice for testing safety of polio vaccine before use in humans

11. Transgenic animals may be useful in
 (1) Producing human protein (Alfa-1 antitrypsin) that is used in the treatment of emphysema
 (2) Producing Organs that may be used in organ transplantation in human
 (3) Diagnosis of some disease like phenylketonuria & cystic fibrosis, Alzheimers, rheumatoid arthritis.
 (4) All of the above
12. In mature Insulin which peptide is absent ?
 (1) B- peptide (2) A-peptide (3) C-peptide (4) None of the above
13. Maximum number of existing transgenic animals is of :
 (1) Fish (2) Mice (3) Cow (4) Pig
14. Multinational companies and industrialized countries are utilizing natural resource of other countries without proper authorisation. It is called
 (1) Biopatent (2) Biopiracy (3) Bioethics (4) Biowar
15. An example of gene therapy is
 (1) Production of injectable hepatitis B vaccine
 (2) Production of vaccines in food crop
 (3) Introduction of adenosine deaminase gene in infants affected with SCID
 (4) Production of test tube babies through artificial insemination and implantation
16. In RNA interference, genes are silenced using
 (1) ssDNA (2) dsDNA (3) dsRNA (4) ssRNA
17. **ASSERTION** : There are 27 documented varieties of Basmati rice grown in India.
REASON : In 1997, an American company got patent rights on Basmati rice through the US patent and Trademark office.
 (1) Both assertion and reason are true but reason is the correct explanation of assertion.
 (2) Both assertion and reason are true but reason is not the correct explanation of assertion.
 (3) Assertion is true but reason is false.
 (4) Both assertion and reason are false.
18. Two bacteria most useful in genetic engineering are
 (1) Rhizobium and Azotobacter (2) Escherichia and Agrobacterium
 (3) Rhizobium and Diplococcus (4) Nitrosomonas and Klebsiella
19. Which type of transgenic microorganism is for production of insulin
 (1) Escherichia coli (2) Entamoeba coli
 (3) Pseudomonas (4) Clostridium
20. Important objective of biotechnology in agriculture sector is -
 (1) To produce pest resistance varieties of plants
 (2) To increase the nitrogen content
 (3) To decrease the seeds number
 (4) To increase the plants