

QoP

How biotechnology can help increase living standard of farmers? (250 words).

Ans.

Biotechnology is a boon to health sector by introducing no. of vaccines, drugs to make man live his life easier. Now it has been introduced in agro sector which has fetched no. of benefits to farmers:

① Development of Disease-resistant crops -

One of the major challenge posed to crops is the attacks from pests. Biotechnology can help solve this problem by making species more disease resistant & immune from pests attacks.

② Various varieties of species - By the help of biotechnology, several species of different crops have been developed according to weather requirements.

Eg:- A variety of paddy has been developed which requires less water.

③ Bio fortification -

Malnutrition is one of the severe problems. To tackle it, crops can be genetically added several nutrient requirements which would help poor fight these problem. Rice Fortification has been provided



approval by FSSAI.

④ Vaccines for cattles :-

India practices mixed farming. So, equal efforts should be given to cattle health too by development of vaccines which can also give them good yields.

⑤ Increase in shelf-life of products -

Since MSP regime is not present for horticulture crops which are then subjected to price rise, hoarding etc.

This problem can be solved by increasing their shelf-life by genetically modifying them.

Thus, from the above reasons we can say that biotechnology can help sort out problems persisting in agriculture for years upto some extent.

Research in the field & encouraging domestic private players should be stressed which can help increase farmers' income.

Excell!