



## BIOLOGY

### NCERT - NCERT Biology(Telugu)

## CHALLENGES IN IMPROVING AGRICULTURAL PRODUCTION

### Think And Discuss

1. In what way drip irrigation method of water supply is useful to the crop as well as the

farmer?



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2. Watershed is a process to improve ground water level. In what way it is related to irrigation. Support your answer.



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3. In what way is vermi compost fertilizer better than chemical fertilizer?



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## Improve Your Learning

1. Suggest some ways through which our country could increase the production of rice to at least global limits?



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**2.** How are Biofertilizers more beneficial as compare to Chemical fertilizers?



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**3.** Find out the adverse effects of chemical fertilizers needed for growing the high yielding varieties of crops?



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4. Can high yielding varieties are grown without chemical fertilizers as well? How?



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5. What are the essential measures that a farmer needs to take before sowing the seeds of a crop?



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6. Suppose you had a farm in a drought strike area of your state, what crops would you grow and how?



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7. What measures will you take to save your field from seasonal outburst of insects?



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8. A farmer had been using a particular insecticide for a long time. What consequences will it have on- a) insect population b) soil ecosystem?



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9. Ramaiah has done soil testing in his field. The percentage of nutrients are 34-20-45. Is it suitable for cultivation of sugarcane crops.

Which crops that can cultivate without using pesticides in Ramaiah's field?



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**10.** Observe the fields in your surrounding and collect information from farmers about the process to remove weeds.



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**11.** Make a list of the major weeds in your area (you have already conducted the project). Find out the different weeds that grow along with different crops in your area? (AS 4)

Name of the Crop	Weeds that grow along with crop



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**12.** Draw a block diagram of water resources in your village.



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**13.** What threats to nature do chemical fertilizers, pesticides, insecticides and herbicides pose?



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**14.** Organic manure is helpful to biodiversity. How do you support the statement?



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**15.** Spraying high dose of pesticides is hazardous to bio diversity and crop yielding.

How can you support this statement? (AS 6)



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**16.** What are the adverse effects of using high yielding varieties of seeds?



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**17.** How would you educate a farmer to use organic fertilizers instead of chemical fertilizers.



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**18.** Venkatapuram village is in drought prone area. Somaiah wants to cultivate sugarcane in his fields. Is it beneficial or not? What questions will you ask him to convey your belief.



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**19.** Natural Pest Controlling methods are useful to Biodiversity. Comment it.



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