

ATOMIC ENERGY CENTRAL SCHOOL

CHAPTER – 10- MICROBES IN HUMAN WELFARE

WORK SHEET- MODULE 6/7

1. Which among the following are correct about Chemical fertilisers?

- (i) Enhance growth of crop plants
- (ii) enhance the growth of useful microbes
- (iii) excess use of it cause eutrophication
- (iv) make soil more acidic

- a) Only (i) and (ii)
- b) (i) and (iv) are correct
- c) (i), (ii),(iii) and (iv) are correct
- d) (i), (ii) and (iv) are only correct

2) Which among the following is a harmful pesticide?

- a) Indole -3- acetic acid
- b) Gibberellic acid
- c) endosulphan
- d) all of these

3) Conventional farming practices involve

- a) use of chemical methods to kill only harmful life forms selectively.
- b) use of chemical methods to kill both useful and harmful life forms indiscriminately
- c) use of manures to kill both useful and harmful life forms indiscriminately.
- d) use of manure to enhance useful life forms in crop fields.

4) Holistic approach of farming

a) is to develop an understanding of the food webs in the crop field

b) is to develop techniques to destroy the flora and fauna which attack plant crops

c) is to use both manures and chemical fertilisers judiciously.

d) is to use biofertilisers and chemical fertilisers in equal amount to increase yield.

5) The biological farming approach is to become familiar

a) with the various life forms that inhabit the field like predators and pests

b) with life cycles of predators and pests

c) patterns of feeding and the habitats that predators and pests prefer

d) All the above.

6) How can the use of bio control measures greatly reduce our dependence on toxic chemicals and pesticides?

7) What do you mean by biological control?

8) How can we develop appropriate means of bio-control?

9) Can you find any difference in action of proteins produced by *Bacillus thuringiensis* as dried spores sprayed on crops and as genetical modified organisms inserted with those protein producing genes? Why Bt genes are introduced genetically into cotton plants rather than spraying it's dried spores?

10) Mention a) fungi used for bio control    b) viruses used to kill pests

11) Have you ever noticed the presence of dragon flies in the crop field is reducing now a days? Discuss this matter with elderly people at home like you grand parents.

#### References

- 1) NCERT TEXT BOOK FOR CLASS XII, BIOLOGY
- 2) MODERN'S ABC BY Dr. B B ARORA & A K SABHARWAL

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