

**CLASS
XII**

TOPIC : STRATEGIES FOR ENHANCEMENT IN FOOD PRODUCTION

ONE MARK QUESTION

- 1 List any two economically important products for humans obtained from *Apis indica*.
- 2 How are the two following varieties of sugarcane different from each other?
i) *Saccharum barberi* ii) *Saccharum officinarum*
- 3 Mention the strategy used to increase homozygosity in cattle for desired traits.
- 4 Which one of the following used in apiculture?
Hilsa, Apis indica, Sonalika
- 5 Which of the following is the semi-dwarf wheat that is high yielding and disease resistant?
Pusa Shubra, Kalyan sona, Ratna .
- 6 Define plant breeding.
- 7 Name the scientist who developed semi-dwarf varieties of wheat in Mexico.
- 8 Name two semi-dwarf varieties of wheat introduced into all wheat growing places of India.
- 9 Where was IR-8 developed?
- 10 Name two better yielding semi-dwarf varieties of rice developed in India.

TWO MARK QUESTIONS

- 11 MOET programme has helped in increasing the herd size of the desired variety of cattle. List the steps involved in conducting the programme.
- 12 Define inbreeding depression. How to overcome this?
- 13 Why is mutation breeding necessary for breeding for disease resistance?
- 14 What are SCPs? What is the significance of such a protein.
- 15 Which part of the plant is best suited for making virus-free plants and why?
- 16 What is meant by germplasm collection? Why is it necessary?

3 MARK QUESTIONS

- 17 What is meant by biofortification? Write the objectives of biofortification?
- 18 Define each of the following:
- a) Tissue culture
 - b) Explants
 - c) somaclones
- 19 Give one example of disease caused by each of fungi, bacteria and viruses in crop plants.

5 MARK QUESTIONS

- 20 What is somatic hybridization? Explain the procedure. Mention any one use of somatic hybridization.
- 21 Briefly describe the steps involved in plant breeding.