

2 0 1 8

Full Marks : 50

Time : 2½ hours

figures in the right-hand margin indicate marks

Answer all Questions.

Give labelled diagram wherever necessary

Describe the modes of reproduction in crop plants. How the mode of reproduction is manipulated to perform a cross-breeding between two cultivars? 12

Or

Describe the method of production of hybrid plants. What are the advantages and limitations of hybrid plants?

Describe the methods for production of hybrid plants for the self-pollinated, cross-pollinated and vegetatively propagated plants. 12

Or

What is polygenic inheritance? Explain the mechanism of polygenic inheritance to determine the skin colour in human.

(2)

3. What is inbreeding depression? Explain the genetic basis of inbreeding depression.

12

Or

Define polyploidy. What are its types? How polyploidy is induced in a crop plant pertaining to crop improvement? Explain with an example.

4. Write short notes on any two of the following:

2x7 = 14

(a) What is heterosis? How is it formed? Mention its application with an example.

(b) Discuss the advantages and limitations of hybrid plants with examples.

(c) Discuss the role of biotechnology in crop improvement.

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