# www . a 2 zpaper ${ }^{331}$. 

Time Allowed: 3 Hours
Maximum Marks : 50

## SECTION-A

Note:- Aitnmpt all the parts. Each part carries 1 mark.

1. (a) Detine symmetry.
(b) What is a correlation. Give example of stimulatory correiation.
(c) What are the Morphogenetic factors?
(d) Write in brief a'sout c'imeras.
(e) Discuss in brief tire polarity in coenocytes.
(f) Define tumour inducing principle in plants.
(g) What is meant by tissue rmx mures?
(h) What is meant by abnormat orowth in plants?

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(1 \times 8=8)
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## SECTION-B

Note: Attempt any 7 questions. Each quesion carries 3 marks.
2. Describe the phenomenon of regeneration in lower plants.
3. Differentiate beifeen physiological and genetic correlation in plants.
4. How polarity is expressed in the external structures of plants? Write your answer briefly explaining the polarity in isolated cells.
5. Write short note on amorphous structures.
6. Discuss the role of light in the morphogenetic 30/2

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7．What are the advantages of tissue mixing methods in plants？Describe stock－scion interrelation．
8．Define Regeneration．Discuss reproductive regeneration in plants．

9．Write short notes on
（e．）Inorganic symmetry in plants
（b） C ．nmpression
10．Briefly．explain Somatic Mutations．
11．How does water temperature affect the plant growth． $(7 \times 3=21)$

## SFCTION－C

Note：Attempt any thinee questions．Each question carries 7 marks．

12．Discuss the following
（a）Regeneration in higher plants
（b）Gravity
13．How abnormal growth can produse new types of organized structures？Explain wit＇${ }^{\text {th }}$ the help of a suitable example．

14．Write short notes on
（a）Reconstitution
（b）Organic symmetry in plants
15．Describe in detail the physical factors affecting the plarit growth during morphogenesis．

16．What is meant by plant growth？Define the term differentiation and discuss this phenomenon with particular reference to external differentiation．
（ $3 \times 7=21$ ）

