





**SECTION - C**

III **Answer any SIX of the following:**

**6 x 3 = 18**

**Question No.27 is compulsory:**

25. What is Phyllotaxy?
26. Mention the important aspects of cell theory. (any three)
27. Differentiate dicot seed from monocot seed (any three)
28. In complementary gene interaction when two white flowered plants are crossed, the F<sub>1</sub> hybrids were all purple flowered plants. Interpret your answer with suitable reason.
29. What is ecological succession?
30. What is Siesmonasty?
31. Draw and label the ultrastructure of an mitochondrion.
32. Mention the different types of hydrophytes.
33. Flower is a modified shoot. Justify the statement.

**SECTION - D**

IV **Answer all the questions**

**5 x 5 = 25**

34. Write the Significance of Viruses.  
(OR)  
Mention the factors influencing stomatal movement.
35. Write note on internal structure of a Riccia thallus  
(OR)  
Hydroponics have been shown to be a successful technique for growing plants, yet most of the crops still grown on land. Why?
36. Write note on physiology of senescence  
(OR)  
Draw and label the T.S. of Nerium leaf.
37. Write a checker board for dihybrid cross.  
(OR)  
Mention about the modifications of taproot.
38. Describe the Pitcher plant.  
(OR)  
Differentiate Prokaryotes from Eukaryotes.

