

Chapter wise Test

Chapter: 2 Sexual Reproduction in Flowering Plants

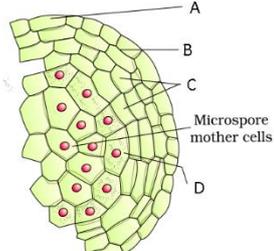
SET 2

Time: 75 min

Subject: Biology

Max Marks: 35

General Instructions: This paper consists of 15 questions. Q 1-5 carries 1 mark each, Q 6-9 carries 2 mark each, Q 10-13 carries 3 marks each, Q 14-15 carries 5 marks each.

- 1 A typical anther is dithecous and tertasporangiate. What does it mean? 2x½
- 2 How is microspore tetrad arranged usually? 1
- 3 Why makes the pollen wall exine indestructible? 1
- 4 Name the junction between ovule and funicle. 1
- 5 If pollen from a species 'A' falls on the stigma of species 'B' will it germinate? Why? 1+1
- 6 Write the adaptive features of an insect pollinated flower. 4x½
- 7 Name two aquatic plants pollinated by water? How is water lily pollinated? 1+1
- 8 Differentiate between Chasmogamous and Cleistogamous flowers. 1+1
- 9 Geitonogamy is functional xenogamy but genetically autogamy. Explain 1+1
- 10 Draw and label the structure of a fertilized embryo sac (any important 3 parts and explain the pre and post pertilization changes in it) 6x½
- 11 Write step-wise the different events in development of female gametophyte starting from the archesporial cell. 6x½
- 12  Label the different parts of the diagram labelled A-D. Identify this structure. 4x½+
1
- 13 a) What is the importance of pollen pistil interaction? 1 +2
b) Why dioecy prevents both self pollination and geitonogamy?
- 14 Describe in brief the development of embryo in a dicot plant. 5
- 15 Define the following: 5x1
a) Apomixis b) Polyembryony c) Scutellum d) Syngamy d) Emasculation

Do not forget to use the **Self Monitoring Tool** to record your performance.