

Chapter wise Test

Chapter: 2 Sexual Reproduction in Flowering Plants

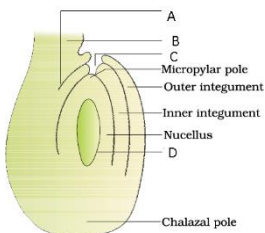
SET 1

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.

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| 1 | A typical angiosperm anther is bilobed and ditheous. What does it mean? | 1 |
| 2 | These cells have more than one nucleus and nourishes the developing pollen grains.
Name it. | 1 |
| 3 | Write the chemical composition of the two walls of a typical pollen grain. | 2x½ |
| 4 | Where is funicle located in a flower? | 1 |
| 5 | When bagging is not required while undertaking artificial hybridization programme? | 2x½ |
| 6 | Give two examples of floral rewards offered to insects during pollination. | 1+1 |
| 7 | List the characteristic adaptive features of flower to facilitate wind pollination. | 4x½ |
| 8 | Cleistogamous flowers are invariably autogamous. Why? | 2 |
| 9 | Differentiate between geitonogamy and xenogamy. | 1+1 |
| 10 | Draw and label the structure of a mature Embryo sac. | 6x½ |
| 11 | Sketch a flow chart showing steps /events leading to formation of male gametes in an anther. | 6x½ |
| 12 | <div style="display: flex; align-items: flex-start;"> <div style="margin-right: 20px;">  </div> <div> <p>Label the different parts of the diagram marked A-D. Name the structure.</p> </div> </div> | 4x½+1 |
| 13 | List any three outbreeding devices found in a cross pollinating flower and define. | 1½
+1½ |
| 14 | a) Describe in brief the different types of Endosperm formation in angiosperms. | 3x1 |
| | b) Explain double fertilization. | 2x1 |
| 15 | a) Differentiate between the following: | |
| | i) Perisperm and Pericarp | 2 |
| | ii) False fruit and Parthenocarpic fruit | 2 |
| | b) What are exalbuminous seeds? | 1 |

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