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**Max Time : 1 hr** **Class = 12th Biology Test**  **Max Marks : 25**

**SEXUAL REPRODUCTION IN FLOWERING PLANTS**

**[Agents of pollination , Double fertilization , Post-fertilization events]**

1. Multiple choice questions : [ 1 X 5 = 5]
2. In cereal grains, the single cotyledon of embryo is represented by :

|  |  |  |  |
| --- | --- | --- | --- |
| a) Coleoptile | b) Coleorhiza | c) Scutellum | d) Hypocotyl |

1. Pollination carried out by water is called as :

|  |  |  |  |
| --- | --- | --- | --- |
| a) Anaemochory | b) Hydrophily | c) Hydrochory | d) Anaemophily |

1. Function of filiform apparatus is to :

|  |  |
| --- | --- |
| a) Recognize the suitable pollen at stigma | b) Stimulate division of generative cell |
| c) Produce nectar | d) Guide the entry of pollen tube |

1. Polyembryony reported in case of :

|  |  |  |  |
| --- | --- | --- | --- |
| a) Citrus | b) Gossypium | c) Triticium | d) Brassica |

1. Plant with ovaries having only one or a few ovules, are generally pollinated by :

|  |  |  |  |
| --- | --- | --- | --- |
| a) Bees | b) Butterflies | c) Birds | d) Wind |

1. Define Parthenocarpy and apomixes with example. [ 2 ]
2. What is Emasculation and Bagging technique? How it is useful in plant breeding program. [ 2 ]
3. A non-biology person is quite shocked to know that apple is false fruit, mango is true fruit. As a biology student how would you satisfy this person? [ 2 ]
4. If Octaploid (8 N) female plant is crossed with Hexaploid (6 N) male plant then what would be the ploidy of the following : 1. Antipodal cells 2. Endosperm. [ 2 ]
5. Write the differences between wind-pollinated flowers and insects-pollinated flowers. Give an example of each type. [ 3 ]
6. Mention three strategies evolved to prevent self-pollination in flowers. [ 3 ]
7. Differentiate between Albuminous , non-Albuminous and Perispermic seeds with one example of each type. [ 3 ]
8. Explain the events upto double fertilization after the pollen tube enters one of the synergids in an ovule of an angiosperms [ 3 ]