

Session Plan

Subject: BIOLOGY

Class:	XII
Chapter Serial Number	3/7
Name of the Chapter:	SEXUAL REPRODUCTION IN FLOWERING PLANTS
Title of Learning Unit / Session	Pollination , Kinds of Pollination, Agents of Pollination
Time Required	50 min

Learning Objective / Outcome (3 min)	• Definition of Pollination • Understand the different kinds of Pollination • Understand about the different agents of Pollination • Understand the characters of flowers pollinated by various agents • Appreciate the significance of Pollination
Previous Knowledge (2 min)	• Anatomy of a flower • Various terms associated with description of a typical flower • Terms associated with different modifications of Androecium • Terms associated with different modifications of Gynoecium • Male and female gametes in flowering plants
Gist of the Lesson for discussion (12 min)	• Definition of Pollination , Different kinds of Pollination ,Understand about the different agents of Pollination ,Characters of flowers pollinated by various agents Significance of Pollination
Diagram / Link (10 min)	https://h5p.org/h5p/embed/814307 https://h5p.org/h5p/embed/814360
Activity / TLO / Link to video / animation/ etc (8 min)	https://www.youtube.com/watch?v=MDB9ElpH2EA&list=PLDQd5ylRrWvu2FEvjQcP8OgVeQWLoGmq3&index=2
Recapitulation of the lesson (7 min)	• Structure of Pistil, structure of Megasporangium (ovule) and Embryo sac, The structure of the Megasporangium (Ovule) , Description of the process of Megasporogenesis, Description female gametophyte , Description of the process of MicrosporogenesisPollen Grain,Viability of Pollen Grains

Instant test (Objective type- 5 questions (5 min)	1 Transfer of pollen grains from the anther to the stigma of another flower of the same plant? 2 Give one example of plant in which both Cleistogamous and chasmogamous flowers are produced . 3 Name the agent of pollination of Water lily. 4 Name a marine water pollinated plant. 5 Which is the tallest Inflorescence ? 6 Name one plant whose pollen cause allergy . 7 What is the ploidy of microspore mother cell?
Home Assignment s (Written work) 3 min	Q.1 Differentiate between Cleistogamous and chasmogamous flower. Q.2 Justify “ Cleistogamous flowers are exclusively autogamous ” Q.3 Differentiate between geitonogamy and xenogamy. Q.4 What are the different types of pollination depending on mode of transfer of pollen grains from the anther to stigma of flowers. Q.5 What are characters of flower pollinated by air. Q.6 What are characters of flower pollinated by water. Q.7 What are characters of flower pollinated by insects . Q.8 Plant Yucca and moth cannot complete their life cycle without each other . Justify.
Video Lesson for Home viewing	Link: https://youtu.be/ZAvvAKjYADw https://www.youtube.com/watch?v=MDB9ElpH2EA&list=PLDQd5ylRrWvu2FEvjOcp8OgVeQWLoGmq3&index=2

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