

**ASSIGNMENT QUESTIONS**  
**BIOLOGY**  
**CHAPTER 1: Reproduction in organism**

**Class: XII**

1. Name the vegetative propagules in the following.  
i) Banana      ii) Agave      iii) Bryophyllum      iv) Water Hyacinth
2. Differentiate between the following .
  - a. Oviparous and viviparous
  - b. Pre-fertilization and post-fertilization events
3. How is the sexuality of papaya plant different from a maize plant?
4. In which organisms gametes are non motile? How do they reach the female gamete for fertilization?
5. Give reasons :
  - a) Rotifers are called Parthenocarpic organisms
  - b) Mammals living in natural wild condition are seasonal breeders
  - c) Water Hyacinth is called an invasive weed
  - d) Bamboo plants are considered to have unusual flowering response .
  - e) *Marchantia* is considered dioecious .

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**CHAPTER 2: Sexual Reproduction in Flowering plants**

1. Explain the structure of megasporangium and female gametophyte with diagram.
2. Even though microspore has 2 male gametes why a plant require 10 microspores to fertilize 10 ovules .
3. Design the various steps that you would plan to combine desirable characters of 2 species .What are such eperiments called ?
4. Draw LS of flower showing growth of pollen tube .
5. Draw a dicot embryo before and after a heart shaped embryo is formed .
6. Give reasons why :
  - a. Pollen products are sold in the market
  - b. Yucca moth deposits its eggs in the ovary locule of yucca plant.
  - c. Pollen of the wrong type does not germinate on stigma.
  - d. Active research is on to understand genetics of apomixes.
  - e. Pollens are well preserved in fossils .

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