

**Multiple choice questions:**

- Which of the following parts of a plant take part in sexual reproduction?  
(a) Flower                      (b) Seed                      (c) Fruit                      (d) Branch
- A pond with clear water was covered with green algae within a week. By which method of reproduction did the algae spread so rapidly?  
(a) Budding                      (b) Sexual reproduction                      (c) Fragmentation                      (d) Pollination
- Seeds of drumstick and maple are carried to long distances by wind because they possess  
(a) winged seeds                      (b) large and hairy seeds                      (c) long and ridged fruits                      (d) spiny seeds
- The 'eye' of the potato plant is what  
(a) the root is to a plant.                      (b) the bud is to a flower.  
(c) the bud is to Bryophyllum leaf.                      (d) the anther is to stamen.
- The ovaries of different flowers may contain  
(a) only one ovule                      (b) many ovules                      (c) one to many ovules                      (d) only two ovules
- Which of the following statements is/are true for sexual reproduction in plants?  
(i) Plants are obtained from seeds.                      (ii) Two plants are always essential.  
(iii) Fertilisation can occur only after pollination.                      (iv) Only insects are agents of pollination.  
Choose from the options given below.  
(a) (i) and (iii)                      (b) (i) only                      (c) (ii) and (iii)                      (d) (i) and (iv)
- Pollination refers to the  
(a) transfer of pollen from anther to ovary.                      (b) transfer of male gametes from anther to stigma.  
(c) transfer of pollen from anther to stigma.                      (d) transfer of pollen from anther to ovule.
- Ritika wanted to make a sandwich, she saw a fuzzy, grayish growth on the bread, it is:  
(a) bud formation                      (b) Spore formation                      (c) Moisture                      (d) None of these
- Mature ovary forms the  
(a) seed                      (b) Stamen                      (c) pistil                      (d) Fruit
- Bryophyllum can reproduce by its  
(a) stem                      (b) Leaves                      (c) Roots                      (d) Flower

**Fill in the blanks:**

- ..... is the fleshy part of the fruit.
- The hard part of the covering the seed is called .....

3. Cotton seeds are dispersed by .....
4. The anther and filament together form the .....
5. The ..... and ..... together form the carpel.
6. The reproductive cells produced by the two adults are called .....
7. The two main methods of reproduction are ..... and .....
8. In hydra and yeast, a new organism is produced in the form of a bulb-like projection called.....
9. The fusion of male and female gametes is termed as.....
10. Seed dispersal takes place by means of..... and.....

**Short answer type questions:**

1. Fungus, moss and fern reproduce by a common method of asexual reproduction. Name the method.
2. Pick the odd one out from the following on the basis of mode of reproduction and give reason for it. Sugarcane, Potato, Rice, Rose
3. One morning as Paheli strolled in her garden she noticed many small plants which were not there a week ago. She wondered where they had come from as nobody had planted them there. Explain the reason for the growth of these plants.
4. When you keep food items like bread and fruits outside for a long time especially during the rainy season, you will observe a cottony growth on them.
  - (a) What is this growth called?
  - (b) How does the growth take place?
5. Coconut is a large and heavy fruit. How is it adapted for dispersal by water?
6. Define the following:
 

|                 |                           |           |           |
|-----------------|---------------------------|-----------|-----------|
| a) Reproduction | b) Vegetative Propagation | c) Zygote | d) Embryo |
|-----------------|---------------------------|-----------|-----------|
7. List advantage of vegetative reproduction?
8. Explain how yeast reproduces by budding?
9. State difference between unisexual flower and bisexual flowers give two examples for each?
10. What does the terms 'stock' mean with respect to grafting?