



# BIOLOGY

## BOOKS - PEARSON IIT JEE

### FOUNDATION

## REPRODUCTION IN PLANTS

### Quick Recap

1. What is reproduction? What are the different forms of reproduction?



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2. What is zygote?



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3. What is vegetative propagation? What are the two different types of it?



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4. What is grafting?



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5. What is ballistic seed dispersal? Give an example.



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**Test Your Concepts Fill In The Blanks**

1. Vegetative propagation in grass includes \_\_\_\_\_.



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2. Potato is an example for \_\_\_\_\_ vegetative propagation.



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3. Plant from which root system is taken during grafting is called \_\_\_\_\_.



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4. Plant from which stem is taken during grafting is called \_\_\_\_\_.



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5. Female reproductive organ of a flower is called \_\_\_\_\_.



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6. Petals constitute \_\_\_\_\_.



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7. In potato, new plants arise from \_\_\_\_\_.



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8. The transfer of pollen grains from anther to stigma is called \_\_\_\_\_.



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**Test Your Concepts For Each Of The Following Questions Four Choices Have Been Provided Select The Correct Alternatives**

1. Onion is an example of \_\_\_\_\_.

A. bulb

B. tuber

C. budding

D. runner

**Answer: A**



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2. Climbing rose is an example of \_\_\_\_\_.

A. cutting



B. layering

C. grafting

D. budding

**Answer: B**



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3. \_\_\_\_\_ is the male reproductive organ.

A. Calyx

B. Pistil

C. Corolla

D. Stamen

**Answer: D**



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4. Dandelions are example of \_\_\_\_\_  
pollination.

A. wind

B. ballistic

C. water

D. animals

**Answer: A**



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5. \_\_\_\_\_ is not an example of artificial vegetate propagation.

A. Cutting

B. Grafting

C. Layering

D. Runner

**Answer: D**



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6. Vegetative propagation using leaf can be observed in \_\_\_\_\_.

A. climbing rose

B. Bryophyllum

C. onion

D. potato

**Answer: B**



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7. After fertilization, ovary will become \_\_\_\_\_.

A. fruit

B. seed

C. embryo

D. zygote

**Answer: A**



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**8. Match the entries of Column 1 with those of Column 2.**

Column 1	Column 2
A. Bulb	(i) Sweet potato
B. Tuber	(ii) Bryophyllum
C. Root	(iii) Onion
D. Leaf	(iv) Potato

A.    A    B    C    D  
(iii) (iv) (i) (ii)

- |    |       |      |      |       |
|----|-------|------|------|-------|
|    | A     | B    | C    | D     |
| B. | (iii) | (i)  | (iv) | (ii)  |
|    | A     | B    | C    | D     |
| C. | (ii)  | (i)  | (iv) | (iii) |
|    | A     | B    | C    | D     |
| D. | (i)   | (ii) | (iv) | (iii) |

**Answer: A**



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**9. Which one of the following is a wrong statement?**

A. Plants with light seed disperse seed through wind

B. After fertilization, ovary will become seed

C. Aquatic plants require water for seed dispersal

D. Seed dispersal in dandelions occurs through wind.

**Answer: B**



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**10.** Assertion (A): Formation of seed is considered as a pre-fertilization event.

Reason (R ): After fertilization, ovule becomes seed.

A. Both A and R are true and R is the correct explanation for A

B. Both A and R are true, but R is the not the correct explanation for A

C. A is true and R is false

D. A is false and R is true

**Answer: D**



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**Mastering The Concepts Knowledge And Understanding**

1. What are the different types of natural stem propagation?



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2. What is germination and why is it important?



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3. What is fertilization?



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4. What is the difference between bulb and stem tuber?



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5. Write the difference between calyx and corolla.



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6. How does pollen reach egg?



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## Mastering The Concepts Application And Analysis

1. Explain the main parts of a flower.



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2. Dispersal mechanism is governed by structure of plant. Explain with suitable example.



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3. A seedling is growing without cotyledons. What is the probable effect this could have on its development?



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4. Why do we observe that there are certain off springs that are identical to their parents as in case of Amoeba, Hydra, etc.?



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5. It is observed that pollens of wheat plant are light in weight. Why?



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6. A particular flower is brightly coloured and secrete nectar. The flower also secrete certain smell to attract insects. What can be inferred about its mode of pollination?



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7. If a seed is provided with adequate water and oxygen, but without suitable temperature and enough light, will it continue to grow?



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