



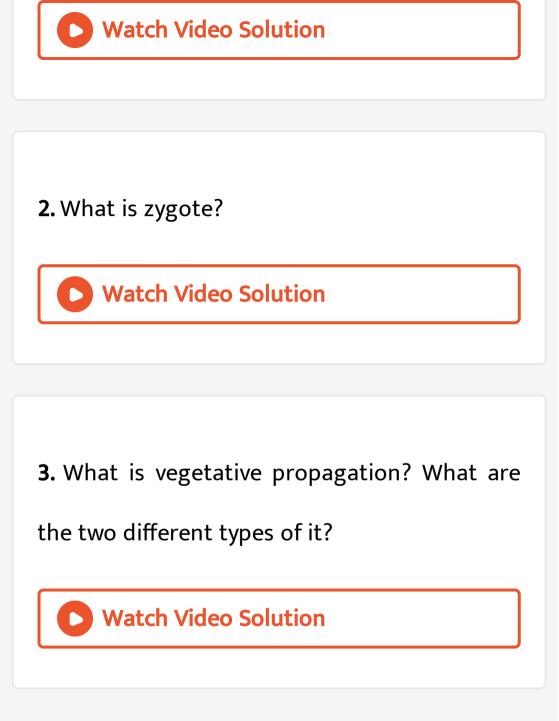
BIOLOGY

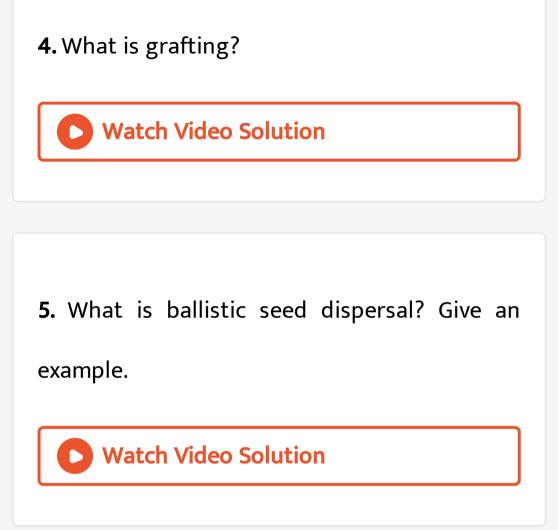
BOOKS - PEARSON IIT JEE FOUNDATION

REPRODUCTION IN PLANTS



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





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



4. Dandelions are example of

pollination.

A. wind

B. ballistic

C. water

D. animals

Answer: A



5. _____ is not an example of artificial

vegetate propagation.

A. Cutting

B. Grafting

C. Layering

D. Runner

Answer: D



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

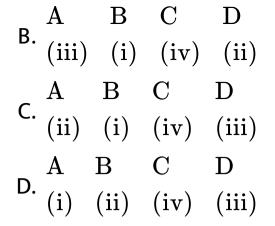
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8. Match theentries of Column 1 with those of

Column 2.

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

A.
$$\begin{array}{ccc} A & B & C & D \\ (iii) & (iv) & (i) & (ii) \end{array}$$



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?

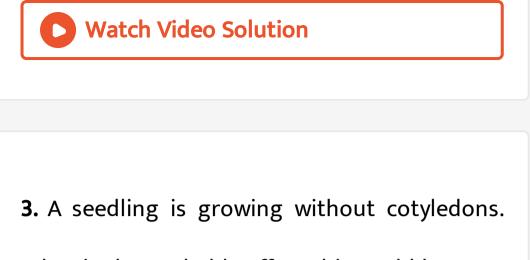




1. Explain the main parts of a flower.

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



What is the probable effect this could have on

its development?



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





5. It is observed that pollens of wheat plant

are light in weight. Why?



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?



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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