

BIOLOGY

How do Organisms Reproduce ?

- Q1** In a potato, vegetative propagation takes place by:
- (A) root (B) leaf
(C) stem tuber (D) seed
- Q2** In Rhizopus, blob like structures at tips of filaments are called
- (A) filaments
(B) hyphae
(C) rhizoids
(D) Sporangia
- Q3** Which of the following structures are found inside sporangia?
- (A) Spores
(B) Sporangioophores
(C) Rhizoids
(D) Hyphae
- Q4** Bryophyllum can be propagated vegetatively by the
- (A) stem (B) leaf
(C) root (D) flower
- Q5** Which of the following organism use ability of regeneration as a mode of reproduction?
- (A) Amoeba (B) Lizard
(C) Planaria (D) Bread mould
- Q6** Vegetative propagation refers to formation of new plants from
- (A) stem, flowers and fruits
(B) stem, leaves and flowers
(C) stem, roots and flowers
(D) stem, roots and leaves
- Q7** Vegetatively propagated plants
- (A) do not bear roots
(B) do not bear buds
(C) are genetically similar
(D) all of these



Answer Key

Q1 (C)

Q2 (D)

Q3 (A)

Q4 (B)

Q5 (C)

Q6 (D)

Q7 (C)



Hints & Solutions

Q1 Text Solution:

Potatoes propagate vegetatively through structures known as stem tubers. A stem tuber is a swollen underground part of a stem that stores nutrients and has buds, often called "eyes." Each of these eyes can develop into a new plant. When conditions are favorable, the buds sprout and grow into new potato plants, each capable of producing more tubers.

Video Solution:**Q2 Text Solution:**

In Rhizopus, the blob-like structures at the tips of filaments are called sporangia. These structures produce spores through asexual reproduction.

Video Solution:**Q3 Text Solution:**

Sporangia are structures found in fungi like Rhizopus that contain spores. Spores are reproductive cells capable of developing into new organisms under favorable conditions.

Video Solution:**Q4 Text Solution:**

Bryophyllum propagates vegetatively through adventitious buds on its leaves, which can grow into new plants.

Video Solution:**Q5 Text Solution:**

Planaria is an organism that uses the ability of regeneration as a mode of reproduction. Planaria can regenerate into new individuals from fragments of their body, making regeneration a form of asexual reproduction in these organisms.

Video Solution:**Q6 Text Solution:**

Vegetative propagation involves the formation of new plants from parts like the stem, roots, and leaves.

Video Solution:**Q7 Text Solution:**

Vegetatively propagated plants are clones of the parent plant, meaning they are genetically identical to the parent plant.

Video Solution: