



THE VILLAGE

INTERNATIONAL SCHOOL

"We Nurture Dreams"

## Reproduction in Plants

Question 1.

Why is the process of reproduction necessary?

Answer: The process of reproduction is necessary for the perpetuation and preservation of species and to increase the number of members of species.

Question 2.

If the filament of Spirogyra is broken into fragments. What will you observe?

Answer: If the filament of Spirogyra are broken into fragments, then each fragment will develop into a new plant.

Question 3.

Fungus, moss and fern reproduce by a common method of asexual reproduction. Name the method.

Answer: Fungus, moss and fern reproduce by the common method of spore formation which is a type of asexual reproduction.

Question 4.

A flower consists of different parts. Name these parts of a flower.

Answer: The four main parts of a flower are

- (i) Sepals
- (ii) Petals
- (iii) Stamen
- (iv) Pistil

Question 5.

Mention the mode of reproduction in the following plants

- (a) Spirogyra
- (b) Yeast
- (c) Money plant

:(a) Spirogyra – fragmentation

(b) Yeast – budding

(c) Money plant – Vegetative propagation

Question 6.

Pick the odd one out from the following on the basis of mode of reproduction and give reason for it, Sugarcane, Potato, Rice, Rose.

Answer: The odd one out is rice.

In the above given pairs as rice reproduces by sexual reproduction and sugarcane, potato and rose reproduces vegetatively.

Question 7.

Give one difference between unisexual and bisexual flower.

Answer: Unisexual flowers are those which contain either male or female reproductive part and bisexual flower has both reproductive parts (i.e. male and female) on the same flower.

Question 8.

Flowers are colourful and fragrant. Give reason supporting the statement. [HOTS]

Answer:

Flowers are so colourful because they absorb and reflect light energy. Fragrance results from production of volatile chemicals which evaporate.

Question 9.

Boojho had the following parts of a rose plant-a leaf, roots, a branch, a flower, a bud and pollen grains. Which of them can be used to grow a new rose plant?

Answer: Branch can be used to grow a new rose plant. As, rose reproduces by vegetative propagation, i.e. stem cutting method.

Question 10.

Formation of new but similar individuals from parents is characteristic feature of which process?

Answer: Reproduction is the process of production of new similar organisms from their parents.

Question 11.

Name two plants where vegetative reproduction takes place by roots.

Answer: Sweet potato and dahlia develops new plants through their roots by the process of vegetative reproduction.

Question 12.

A yellow powdery substance is present in the anther which participates in reproduction process. Name this substance.

Answer: Pollen grains.

Question 13.

In which part of flower does fertilisation occur?

Answer: Ovary is the part where male and female gametes fuse together.

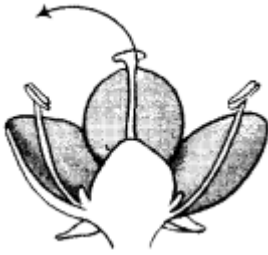
Question 14.

Bryophyllum leaves reproduce using which mode of reproduction?

Answer: Asexually by vegetative propagation.

Question 15.

Which type of pollination does the given figure indicate?



Answer:

The given figure shows self-pollination, as the pollen grains from anther of flower are transferred to the stigma of same flower.

Question 16.

What are the bulb-like projections forming in yeasts?

Answer: The bulb-like projections formed during reproduction are called buds.

Question 17.

'Spores' as a means of asexual reproduction are used by which plants?

Answer: Spores are produced by fungi, ferns and mosses during unfavourable conditions.

Question 18.

Write the male and female reproductive parts present on the flowers.

Answer: The male reproductive part is stamen and the female reproductive part is pistil.

Question 19.

Pollen grains are present inside anthers for long time yet they do not die. Why?

Answer: Pollen grains have a tough protective coat which prevents them from drying up.

Question 20.

Name two plants in which pollination occurs by water.

Answer: Lotus and coconut

Question 21.

Fruit is the ripened ovary of a flower. Explain.

Answer: After fertilisation, the ovary of a flower develops and becomes a fruit with seeds present inside.

Question 22.

Banana is a fruit without seeds. Give reason.

Answer: Banana forms from one parent only. There is no seed production.

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