

WELCOME TO THE ONLINE CLASS

SESSION NO.: 7

CLASS: 5

SUBJECT: SCIENCE

CHAPTER NUMBER: 1

CHAPTER NAME: PLANTS: INCREASING THE NUMBER

SUB TOPIC: PROTECTION OF CROPS AND STORAGE OF SEEDS

CHANGING YOUR TOMORROW

LEARNING OBJECTIVE

To enable the learner to learn about how to protect the crops and store the seed.

WARM UP

- **Define agriculture.**
- **Why it is necessary to add manure and fertilizers to the soil?**
- **State the role of insecticides and pesticides.**

AGRICULTURE

- The practice of growing plants on a large scale for food is called agriculture.



FOR GOOD AND HEALTHY CROP



Use healthy and ripe seeds for sowing.



Prepare the soil properly.



Add manure or fertilizers to the soil.



Irrigate the soil.



Use insecticides and pesticides.

MANURE

- Manure is the decomposed form of dead plants and animals, which is applied to the soil to increase production.
- It is a natural form of fertilizer and is cost-effective.



FERTILIZERS

- A chemical substance that is spread on land or soil to make plants grow better.
- Urea, super phosphate, ammonium sulphate and nitrate are the fertilizers.
- These are added to the soil to increase production.
- However, overuse of chemical fertilizers can be harmful for soil as well as the crops.



INSECTICIDES

- Any chemical used to kill the insects is called an insecticides.
- They help farmers by killing the insects which might eat their crops.



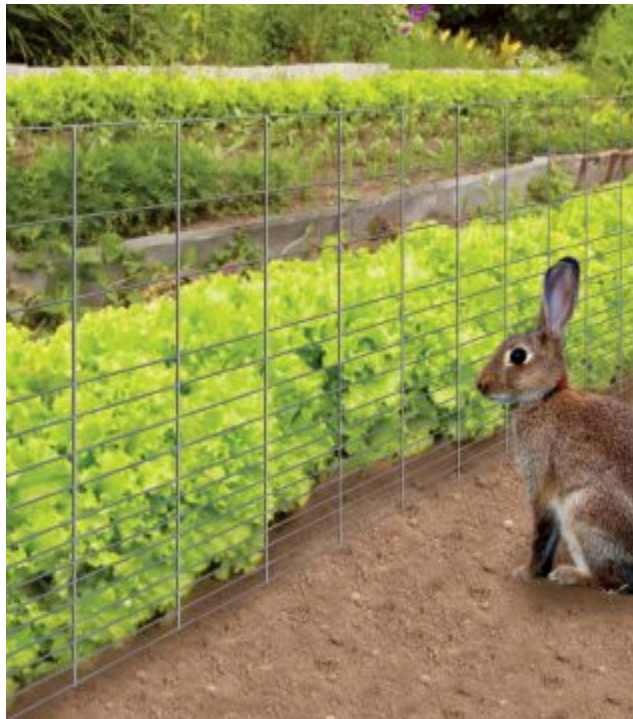
PESTICIDES

- Any chemical used for destroying insects or other organisms harmful to cultivated plants or to animals are called pesticides.
- They help farmers grow more food on less land by protecting crops from pests, diseases and weeds as well as raising productivity per hectare.



PROTECTION OF CROPS

- We need to protect our crops against
 - Grazing animals like cows and goats,
 - Pests such as locusts, grasshoppers and caterpillars and
 - Diseases.



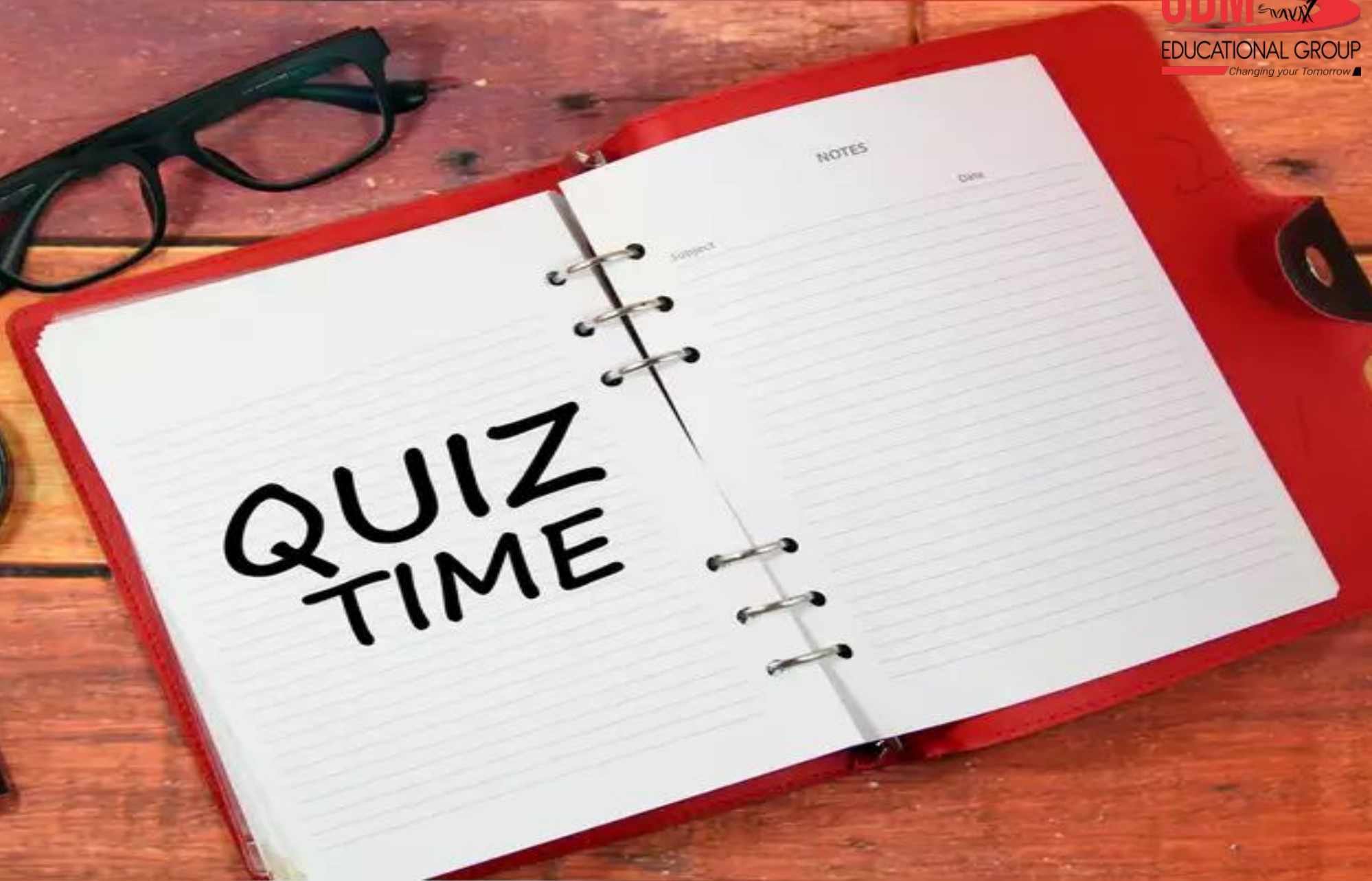
STORAGE OF CROPS

- After harvesting, grains need to be protected against moisture.
- They have to be kept safe from rats, moles, birds, squirrels and insects. So, they must be stored in air tight, sealed containers.
- Plants, like other living things, need love and care. Under favourable conditions they grow well.
- A good crop adds to the wealth of a country.



SUMMARY

- **We need to protect our crops against**
 - **Grazing animals like cows and goats,**
 - **Pests such as locusts, grasshoppers and caterpillars and**
 - **Diseases.**
- **After harvesting, grains need to be protected against moisture.**
- **They have to be kept safe from rats, moles, birds, squirrels and insects. So, they must be stored in air tight, sealed containers.**



**QUIZ
TIME**

NOTES

Date

Subject

- 1. Which among the following are threat to the crops.**
- a. Locust**
 - b. Grasshopper**
 - c. Cow**
 - d. All of these**

ANS: d. All of these

2. After harvesting, crops need to be protected from

_____.

ANS: Moisture, insects, rodents, pest

F. Answer the following

1. How are plants useful to us?

Ans: Plants are useful to us for the following reasons:

- Plants provide us different types of foods like cereals, pulses, vegetables, fruits etc.**
- Plants provides us with wood fibre, rubber, gum, tea and coffee.**
- Plants supply as with life giving oxygen.**
- Many plants search tulsi, aloe vera, etc. are used to prepare medicines.**
- Plants absorb water through their roots and release water vapour from their leaves by a process called transpiration. Thus, they regulate the water cycle.**
- Plants help reduce soil erosion.**

F. Answer the following

2. Name the different parts of a seed. Draw a diagram and label the parts.

Ans: Different parts of a seed.

Seed coat: It is a thick outer covering that protects all seeds.

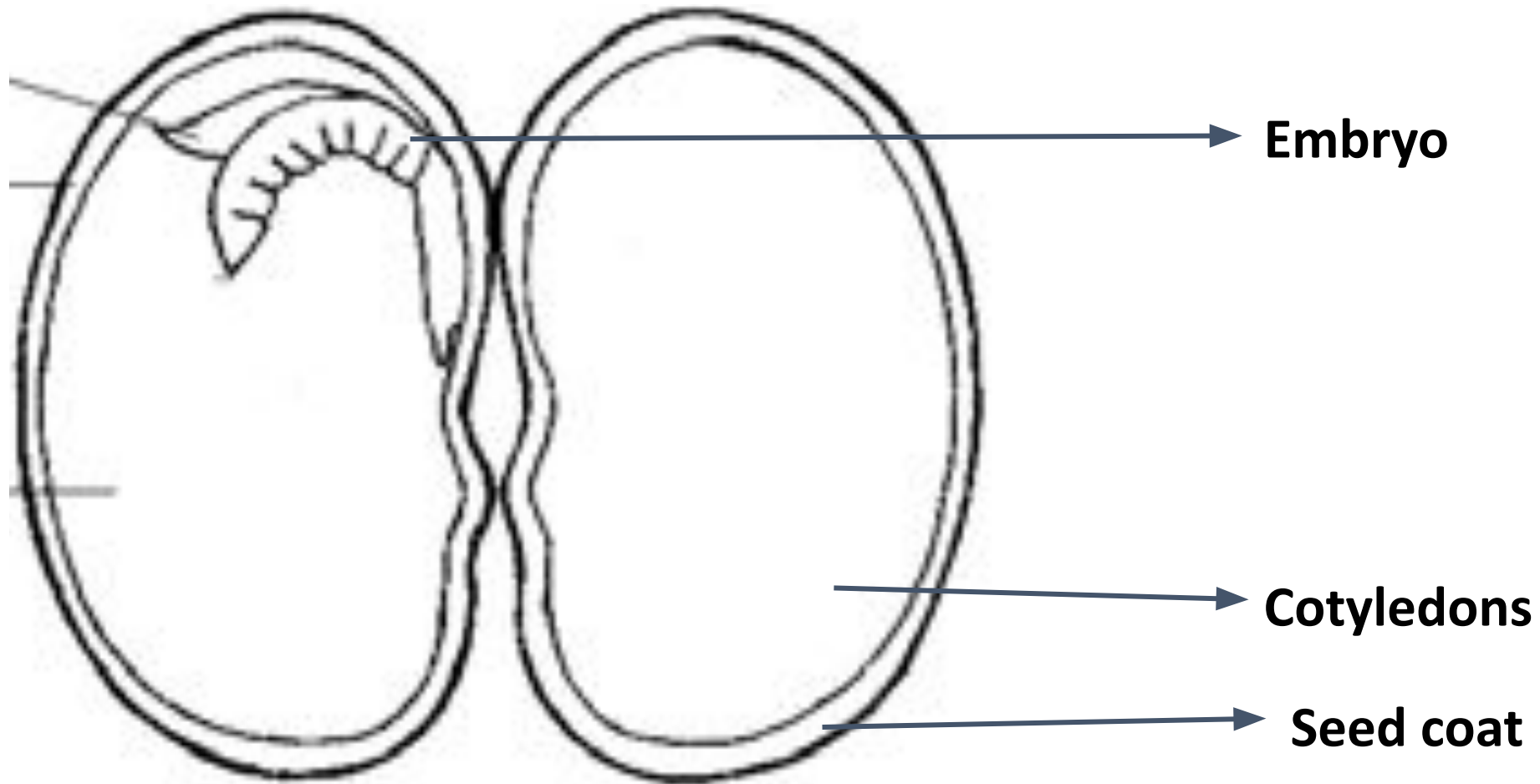
Cotyledons: Just below the seed coat seed leaves are present.

- **It protects the baby plant**
- **They also store food for the baby plant**

Embryo:

- **The baby plant present between the cotyledons is called the embryo. It has a small root or radicle and a shoot or plumule.**

STRUCTURE OF A SEED



LEARNING OUTCOME

The learner will be able to know how to protect the crops and store the seeds.

THANKING YOU
ODM EDUCATIONAL GROUP