

WELCOME TO THE ONLINE CLASS

SESSION NO.: 4

CLASS: 4

SUBJECT: SCIENCE

CHAPTER NUMBER: 2

CHAPTER NAME: TEETH AND MICROBES

SUB TOPIC: MICROBES

CHANGING YOUR TOMORROW

LEARNING OBJECTIVE

To enable the learner to:

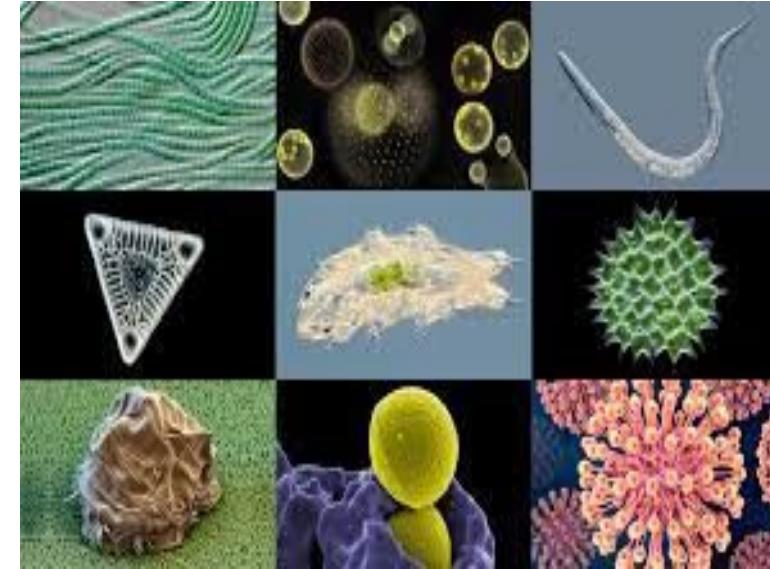
- **know about the microbes and its kinds.**
- **identify the causes of microbes.**

RECAPITULATION

- If we take good care of our teeth, we can save them from decaying.
- Bacteria attacks enamel and form a sticky coating , then dentine and finally pulp.
- When bacteria reaches into nerves within the pulp they cause pain.
- Decaying of tooth can lead to cavities and bleeding gums.
- Calcium and vitamin C are important for healthy teeth and gums.

MICROBES

- Microbes are tiny living things.
- These living microorganisms can be seen through a microscope.
- Microscope is an instrument used to see very small objects.



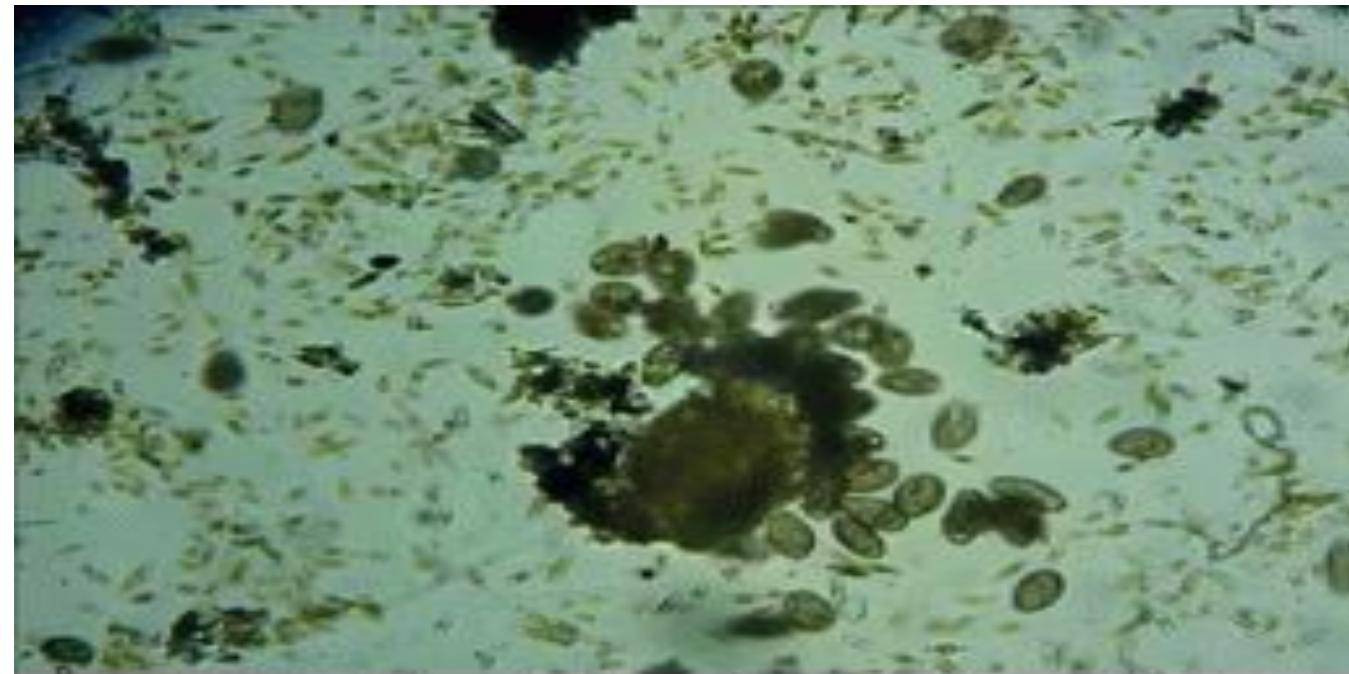
GROWTH OF MICROBES

- Microbes grows rapidly wherever they get warmth, moisture, food and air.
- They may grow in soil, in water, inside or outside our body.
- Our mouth and blood vessels provide favourable conditions for certain microbes.



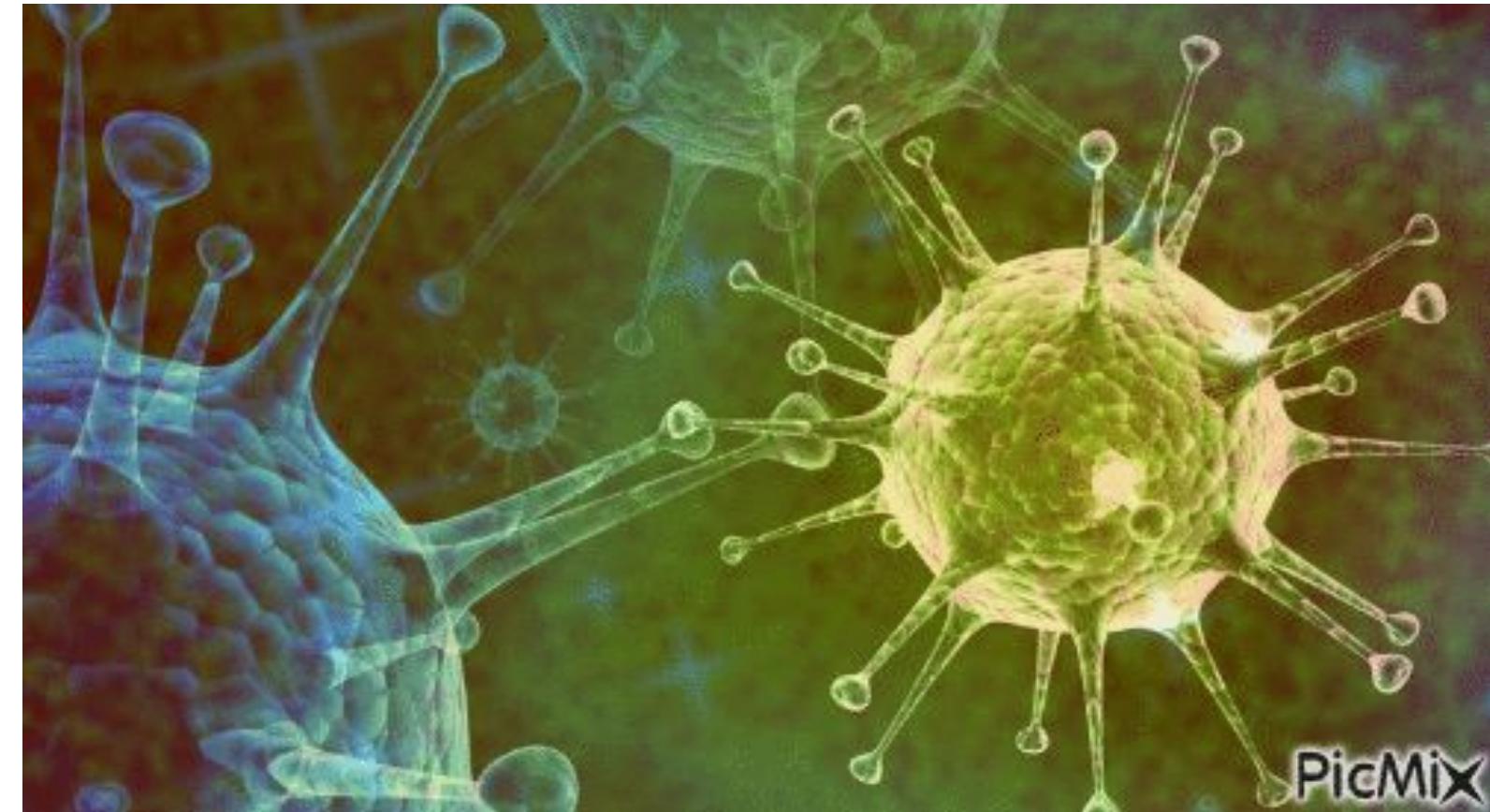
GERMS

- Some microbes cause diseases in human beings.
- Disease- causing microbes are called **germs**.
- Germs are tiny organisms that can cause disease.



KINDS OF MICROBES

- **Bacteria**
- **Viruses**
- **Protozoa**
- **Fungi**



BACTERIA

- Bacteria are very tiny single-celled microorganisms.
- They may be rod- shaped, spiral or round.
- Harmful bacteria can cause diseases like typhoid, tuberculosis and pneumonia.

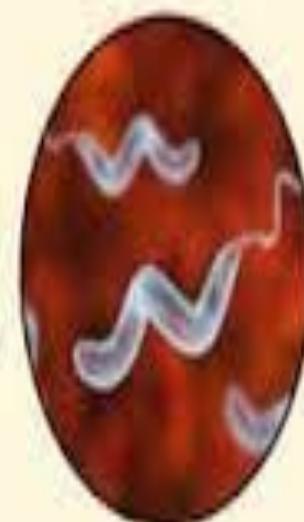
EXAMPLES OF BACTERIA



Spherical



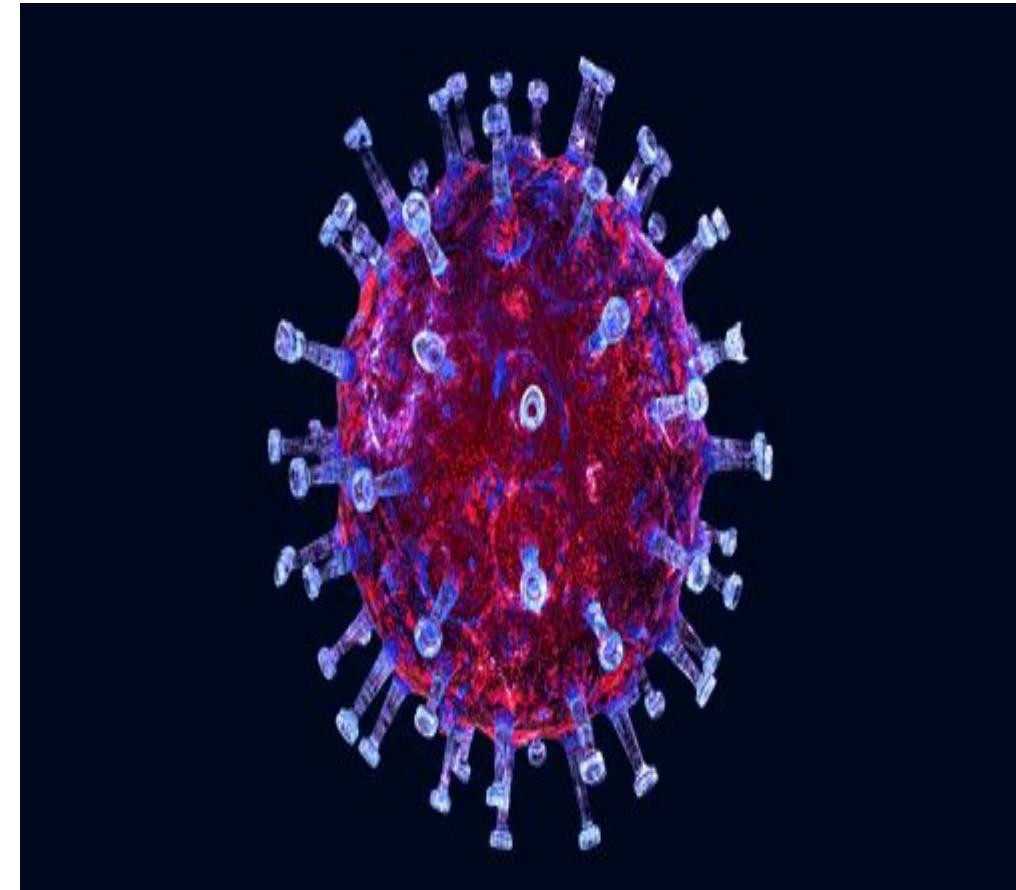
Rod-like



Spiral

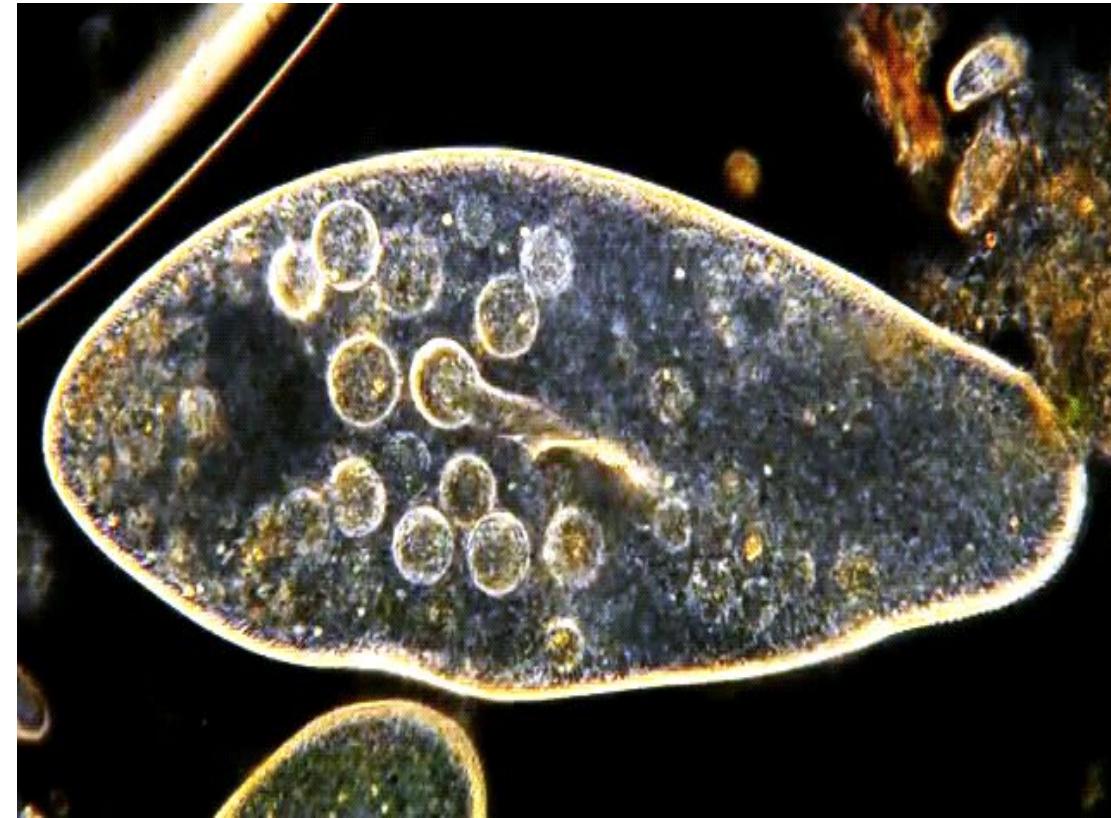
VIRUSES

- Viruses are smaller than bacteria and can be seen only through a powerful microscope.
- They can cause diseases like chickenpox, flu, polio, dengue and common cold.



PROTOZOA

- Protozoa are single - celled organisms.
- Malaria and dysentery are caused by protozoa.



FUNGI

- Fungi are organisms which grow on decaying matter and cause skin diseases like ringworm and athlete's foot.
- Some fungi are called yeast help to make bread soft.



GENETICIST [TUMBLE]

SUMMARY

- **Microbes are a living things that is too small to be seen with naked eye.**
- **There are four types of microbes : bacteria, virus, protozoa and fungi.**
- **Viruses are the smallest of all the microbes and responsible for cause of chicken pox.**
- **Mostly microbes like fungi are found on water and they are transmitted through poor hygiene or poor sanitization.**
- **Yeast is a kind of fungi which helps in rising the dough of bread and makes it more sweeter.**



**IT'S
QUIZ
TIME**

Q1. Which device is used to see microbes?

ANS: Microscope

Q2. Name the microbe which can cause malaria.

ANS: Protozoa

Q3: Which microbe grows on decaying matter and causes disease like ringworm and athlete's foot?

Ans: Fungi

HOMEWORK

1. Do the oral questions of page no: 19.

LEARNING OUTCOME

The learner will be able to:

- **know about the microbes and its kinds.**
- **identify the causes of microbes.**

**THANKING YOU
ODM EDUCATIONAL GROUP**